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EPA Region 5 Records Ctr.



27 June 2001

Mr. Scott Hansen, SR-6J
Work Assignment Manager
U.S. Environmental Protection Agency
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

U.S. EPA Contract No.: 68-W7-0026
Work Assignment No.: 114-RXBF-0573
Document Control No.: RFW114-2B-AIQU

Re: Oversight Report for the oversight provided until 14 June 2001, Skinner Landfill, West Chester, Ohio

Dear Mr. Hansen:

Roy F. Weston, Inc. (WESTON®) is pleased to submit the first periodic report for the oversight provided until 14 June 2001.

Should you have any questions or require additional information, please feel free to contact me at (847) 918-4051.

Very truly yours,

ROY F. WESTON, INC.

Omprakash S. Patel.
Site Manager



**REMEDIAL ACTION OVERSIGHT
PERIODIC REPORT UNTIL 14 JUNE 2001
SKINNER LANDFILL
WEST CHESTER, OHIO**

June 2001

Prepared for

U. S. Environmental Protection Agency
77 West Jackson Boulevard
Chicago, Illinois 60604

This document was prepared for the U.S. EPA Contract No. 68-W7-0026, WESTON Region V Response Action Contract (RAC).

Document Control No. RFW114-2B-AIQU

**REMEDIAL ACTION OVERSIGHT REPORT
SKINNER LANDFILL
WEST CHESTER, OHIO
UNTIL 14 JUNE 2001**

This report summarizes the field oversight of construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio. Earth-Tech and its subcontractors are completing construction implementation and remedial action. The subcontractors to date include Pro-Terra, Geo-Solutions, David E. Estes, Alt & Witzig, and Bowser-Morner. Oversight was provided by one staff member of Roy F. WESTON Inc. Photo documentation and copies of field log notes are attached.

Field activities at the site are being performed with the purpose of implementing the U.S. EPA-approved Constructing Implementation and Remedial Action Plans. The plans include the design and construction of a landfill cap system; biopolymer slurry drainage interceptor trench; soil-bentonite slurry trench cut-off wall; force main system; extraction well and observation well network; and a landfill passive gas vent and piezometer system.

11 April 2001 (Friday)

The following personnel were present for a pre-construction meeting at the Skinner Landfill in West Chester, Ohio:

Scott Hansen, Remedial Project Manager (U.S. EPA)
Ben Baker, PRP (DOW-SLG)
Ron Roelker (Earth Tech)
King Demolition Representatives
Gordon Horn, U.S. EPA oversight (WESTON)
Omprakash Patel, U.S. EPA oversight (WESTON)

A pre-construction meeting was held at the Skinner Landfill site to discuss the project specifics and schedule. The items discussed during the meeting included: access to the site through the construction entrance; landfill cap, interceptor trench, and slurry wall construction; extraction well and interceptor well installation; landfill passive gas vent and piezometer installation; and related items. Other items discussed during the meeting included: scrap metal removal; erosion control plans; perimeter fence checks; WESTON's role and responsibilities; and the site Health and Safety meeting to be held at a later date. The clearing and grubbing will start on 16 April 2001.

18 April 2001 (Wednesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)
Earth Tech, additional employees
King Demolition employees
Gordon Horn, U.S. EPA oversight (WESTON)

A access road around the perimeter of the site along the fence line was almost complete. There was no trailer onsite, Earth Tech Site Manager is not sure when the trailer will be ordered. Silt fence material was delivered to the site and installation was started. Heavy equipment was delivered to the site by King Demolition.

20 April 2001 (Friday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)
Earth Tech, additional employees
King Demolition employees
Gordon Horn, U.S. EPA oversight (WESTON)

Earth Tech and its subcontractors continued to perform clearing and grubbing operation. Most of the work was being performed on the face of the slope towards the front portion of the site. Until additional clearing of scrap metal is completed the trailer cannot be moved onto the site. Mr. Skinner has moved some metal but has been slow in the process. Mr. Skinner made arrangement to remove some of the larger trees. Mr. Skinner wanted to remove more but Earth Tech did not want to wait for Mr. Skinner to complete the removal because Mr. Skinner was taking too long. Earth Tech continued to wait for Skinner to remove some tanks located on the site.

25 April 2001 (Wednesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)
Earth Tech, additional employees
King Demolition employees
Michael Brady, U.S. EPA oversight (WESTON)

Earth Tech and its subcontractors continued clearing and grubbing operations. Earth Tech anticipates the trailer will be delivered to the site tomorrow. Electricity will not be hooked up for several days.

01 May 2001 (Tuesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)
Earth Tech, additional employees
David E. Estes Engineering, Inc. employees (surveyors)
King Demolition employees
Monica Stefanoff, U.S. EPA oversight (WESTON)

Earth Tech and its subcontractors continued to perform clearing and grubbing of the site. The clearing of the site is almost completed. The trees and shrubs that were removed needs to be relocated to the stockpile area. There are three dozers on site performing the clearing and grubbing. Earth Tech will switch equipment to speed up the debris relocation.

David E. Estes Engineering was on site performing the surveying on the south slope.

The trailer has been set up outside the fenced area of the site. All visitors must sign in at the trailer before entering site.

04 May 2001 (Friday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)
Earth Tech, additional employees
David E. Estes Engineering, Inc. employees (surveyors)
King Demolition employees.
Monica Stefanoff, U.S. EPA oversight (WESTON)

Earth Tech and its subcontractors continued to perform clearing and grubbing work. The Earth Tech Site Manager has estimated that clearing and grubbing will be completed by Wednesday. Phone and

fax were installed but electricity has not been connected to the trailer. All required documents appears to be located in the on-site trailer. Hospital route is posted in the trailer. Earth Tech Site Manager expects that the Pro Terra will begin mobilizing next week and the trenching operations will start the following week.

David E. Estes Engineering, Inc. on site performing surveying of grade.

09 May 2001 (Wednesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

- Jason Guenther, Site Manager (Earth Tech)
- Earth Tech, additional employees
- David E. Estes Engineering, Inc. employees (surveyors)
- King Demolition employees
- Gordon Horn, U.S. EPA oversight (WESTON)

Earth Tech and its subcontractors continued clearing and grubbing and other preliminary work at the site. Construction signs have not been posted near the Cincinnati-Dayton Road.

Breaks in perimeter fence were being repaired by workers. It was observed that several fence posts were suspended in the air past the top of the slope along the East Fork of Mill Creek. Earth Tech Site Manager was aware of the situation and planned on taking care of it. Also, informed the Earth Tech Site Manager regarding a drainage pipe discharging to the creek in same area. Earth Tech Site Manager suspected that the bales of hay must have been washed away during heavy rain.

Several dump trucks arrived at the site. The Earth Tech Site Manager expects that the equipment and supplies for trench will be delivered this week.

Drums that are staged near the top of the landfill will be sampled soon. Earth Tech is waiting until after the next meeting with the citizen coalition. Decontamination pad will be built this week.

14 May 2001 (Monday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)
Earth Tech, additional employees
Pro-Terra employees
David E. Estes Engineering, Inc. employees (surveyors)
Alt & Witzig Engineers (geotechnical testing)
Michael Brady, U.S. EPA oversight (WESTON)

Earth Tech completed clearing and grubbing operations. Grading of the site continued. Surveyor continued to set elevation stakes on the top of the landfill and along the perimeter fence using GPS. Pro Terra was on-site and was mobilizing their equipment and supplies for the slurry walls including a truckload of bentonite. The slurry wall construction is anticipated to start on Tuesday or Wednesday depending on when the track hoe will be delivered. The trenching will begin on the southeastern side of the landfill.

Earth Tech is planning to collect the drum and surface water samples starting this Wednesday. Materials for construction of the decontamination pad were delivered to the site. Air monitoring equipment for use during the drum sampling was installed.

15 May 2001 (Tuesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)
Earth Tech, additional employees
Pro Terra employees
David E. Estes Engineering, Inc. employees (surveyors)
Alt & Witzig Engineers (geotechnical testing)
Michael Brady, U.S. EPA oversight (WESTON)

Earth Tech continued to grade the landfill and construct access roads. Surveyor continued with GPS and other surveys along the perimeter of the landfill.

Earth Tech is in the process of constructing a temporary staging area for drum sampling and disposition. The location of the decontamination pad has been changed. It is stated in the Construction Implementation Plan, "The equipment decontamination area will be located to the northwest of the field offices."

The drum and tank sampling will be performed in Level 'B' PPE and air-monitoring equipment (LEL & PID meters) will be used. Approximately 75 drums have been staged so far.

Earth Tech informed WESTON that they will implement the U.S. EPA comments received on the Sampling Plan.

Earth Tech is trying to locate an alternate water source for slurry wall construction because the level of arsenic in the two on site drinking water wells is not acceptable for use to prepare the slurry.

16 May 2001 (Wednesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

- Jason Guenther, Site Manager (Earth Tech)
- Earth Tech, additional employees
- Pro-Terra employees
- David E. Estes Engineering, Inc. employees (surveyors)
- Alt & Witzig Engineers (geotechnical testing)
- Michael Brady, U.S. EPA oversight (WESTON)

Additional Earth Tech employees were present on-site for the drum sampling event. Earth Tech has decided to delay this task until tomorrow. Earth Tech is regrading the landfill debris from the southeastern lobe of the site and covering it with soil from the southern borrow area.

Pro Terra continued to mobilize equipment. The large track hoe (400 series) has not yet arrived on site. Trench length is estimated at 1,300 to 1,400 linear feet. Trenching is scheduled to begin tomorrow on the southeastern side of the landfill. Water for slurry was received from a subcontractor and the set up of the slurry mix was initiated.

Pre-construction Health and Safety meeting was held on site at noon. The meeting was conducted by Michael Sherron, Earth Tech H&S officer. He noted that Mr. Skinner identified at least three areas of the site where either mustard gas or "bombs" are buried. These areas have been marked with stakes and flagging.

Mike Sherron noted that an employee of Alt & Witzig left the site on Monday to go to the hospital because of chest pains. Mike stated that no one should go to the hospital alone.

Several work stoppages occurred during the day due to lightning and heavy rains.

17 May 2001 (Thursday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)
Earth Tech, additional employees
Pro-Terra employees
David E. Estes Engineering, Inc. employees (surveyors)
Alt & Witzig Engineers (geotechnical testing)
Michael Brady, U.S. EPA oversight (WESTON)

Earth Tech continued to re-grade the landfill debris from the east-northeast section of the main fill area and covering it with the soil from the southern borrow area in 12-inch lifts. Earth Tech also continued to grade the landfill and constructing the on-site access roads.

Earth Tech informed WESTON that they are responding to the comments on the Drum and Tank Sampling Plan.

Pat Higgins of Earth Tech was on site to collect surface water samples from the creek at the westernmost location.

Alt and Witzig Engineers continued conducting compression testing, using a densometer, as the fill material was covered and soil compacted. Two compaction tests per square acre are being performed.

Slurry wall installation was discontinued for another day. Problems include bad weather, difficulty in obtaining the larger track hoe, and difficulty in obtaining a source of water. Water is being delivered to the site from the Butler County Water Treatment Plant in 2,000-gallon loads. The two frac tanks, each 10,000-gallon capacity, need to be filled.

Lightning alerts and heavy rains caused work stoppages.

18 May 2001 (Friday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)
Earth Tech, additional employees
Pro-Terra employees
David E. Estes Engineering, Inc. employees (surveyors)
Alt and Witzig Engineers (geotechnical testing)
Michael Brady, U.S. EPA oversight (WESTON)

Earth Tech continued regrading the landfill debris from the east-northeast section of the main fill area and covering it with the soil from the southern borrow area in 12-inch lifts. Earth Tech also continued grading the landfill and building access roads to different areas of the site.

Alt and Witzig Engineers continued conducting compression testing, using a densometer, as the fill material was covered and soil compacted.

Relocation of drums to staging area was completed. Drums are covered with plastic sheeting. No drums were placed in the over-packs. The empty drums will be left on site and be buried in the landfill. The drum staging area exclusion zone is defined by orange snow fencing. Drum sampling may start today but was delayed because of the bad weather.

Earth Tech continued surface water sampling at the second and third sampling locations along East Fork

David E. Estes Engineering, Inc. continued surveying.

The frac tanks are now filled with water. A long reach excavator (Kamatsu PC400 LC) is scheduled to arrive on site next Tuesday. It will take approximately half a day to assemble.

Mr. Skinner and his assistants were on site to work on equipment. They were not wearing appropriate PPE, i.e. safety glasses and hard hats.

No work is scheduled to be performed this weekend.

21 May 2001 (Monday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)

Earth Tech, additional employees
Pro-Terra employees
David E. Estes Engineering, Inc. employees (surveyors)
Alt and Witzig Engineers (geotechnical testing)
Michael Brady, U.S. EPA oversight (WESTON)

Additional construction signs were placed by the Earth Tech at the site entrance, along Cincinnati-Dayton Road and along the private drive leading to the site. Construction of the slurry wall is approximately 2 to 3 weeks behind schedule according to the Remedial Action Plan Construction Schedule

Earth Tech began trenching using a small Kamatsu PC200 excavator. Refusal was reached at approximately 9 feet bgs along the 40-foot lateral trench. Slurry was introduced and allowed to fill the trench. Note that the depth to bedrock at this location was expected to be slightly deeper, e.g. 15 feet bgs.

Earth Tech continued regrading the landfill debris from the east-northeast section of the main fill area and covering it with soil from the southern borrow area in 12-inch lifts. Earth Tech also continued grading the landfill and building access roads to different areas of the site.

Alt and Witzig Engineers continued conducting compression testing, using a densometer, as the fill material was covered and soil compacted.

Drum sampling was conducted in Level 'B' PPE (Saranex & supplied air) using drum thieves and scoops, as needed. Moreover, non-sparking tools were used to open the drums. Hand augering was attempted, but Earth Tech could not penetrate the soils in the drums easily. Sample equipment was decontaminated with Alconox soap wash and rinsed. Used decontamination water and rinse water are stored in one 55-gallon drum within the staging area; used PPE is stored in a 55-gallon drum within the staging area

The drum sampling was conducted prior to approval of the Drum & Tank Sampling Plan. However, no deviation was noted when the sampling plan was approved. With the exception of the decontamination pad variance and drum sampling variance, there were no observed deviations from the remedial design, construction implementation specifications and U.S. EPA approved planning documents.

22 May 2001 (Tuesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Michael Brady, U.S. EPA oversight (WESTON)
Jason Guenther, Site Manager (Earth Tech)
Earth Tech, additional employees
David E. Estes Engineering, Inc. employees (surveyors)
Alt and Witzig Engineers (geotechnical testing)
Columbus Equipment Company

No trench-work was conducted using the PC200 per Ronald Roelker, Earth Tech's Project Engineer, who postponed further construction of the slurry wall until the PC400 arrived.

Earth Tech continued regrading the landfill debris, grading the landfill, and building access roads to different areas of the site.

Alt and Witzig Engineers continued conducting compression testing, using a densometer, as the fill material was covered and soil compacted.

David E. Estes Engineering, Inc. continued with surveying.

Earth Tech is constructing the decontamination pad in accordance with Section 02750 of the Remedial Design Phase I Report. The decontamination pad is located in the northwest quarter near the top of the landfill. Gravel, plastic, and felt material were used to construct the pad, and ramps were constructed at the south and north ends of the decontamination pad. Vehicles enter from the south and exit to the north, moving away from the fill material. The location of the decontamination pad is different from the approved location.

Earth Tech was HazCating the soil samples and liquid samples collected from the staged drums on the landfill. Roughly 20 more drums need to be sampled. HazCating was done at a mobile trailer on top of the landfill near the drum staging area. The HazCat kit evidently did not have the proper tools needed to test for sulfur or cyanide.

23 May 2001(Wednesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)
Earth Tech, additional employees
Bruce George (Geo-Solutions Incorporated)

David E. Estes Engineering, Inc. employees (surveyors)
Michael Brady, U.S. EPA oversight (WESTON)

Earth Tech continued to build decontamination pad and placing the sub-grade on the landfill. The surveyors continued the survey work.

Earth Tech continued to HazCat liquid samples collected from the staged drums on the landfill. All of the drums have been sampled except for six containing liquid. Results indicated that one soil sample had a pH of 10. Other samples contained chlorinated compounds. Drums containing liquids will be overpacked.

According to Earth Tech only one AST containing diesel fuel will be sampled. An interface probe will be used to check the volume of liquid in the tank.

24 May 2001 (Thursday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)
Earth Tech, additional employees
Randy Anschultz (Pro Terra)
Pro-Terra, additional employees
Bruce George (Geo-Solutions Incorporated)
David E. Estes Engineering, Inc. employees (surveyors)
Mr Ray Skinner
Michael Brady, U.S. EPA oversight (WESTON)
Omprakash Patel, U.S. EPA oversight (WESTON)

Earth Tech continued construction of the decontamination pad. The long reach backhoe is expected to arrive on site later today.

Mr Skinner was on site and spoke at length about a number of concerns. His comments are summarized below

- While moving equipment, debris, etc. Earth Tech overturned a drum and oil spilled from the drum into the East Fork of Mill Creek. Mr. Skinner subsequently uprighted the drum.

- Trucks are driving too fast along the private drive leading to the site trailer and landfill. Mr. Skinner indicated that he may block the entrance to the site. Moreover, his son's car was nearly hit by an Earth Tech truck driving too fast.
- Vehicles exiting the site are leaving too much dirt and mud on the private driveway and entrance to Cincinnati-Dayton Road. Mr. Skinner contacted the local West Chester police department about the 'mess' and two patrol cars investigated the complaint. Mr. Skinner would like to see tire baths in use.
- Heavy equipment entering and exiting the site are leaving ruts in his asphalt driveway. He indicated that the ruts were not present before construction began.
- Someone tried to break into the site trailer and Mr. Skinner ran them off.
- Someone has attempted to move his cranes and other equipment at the site.
- Someone has removed car parts, e.g. hood ornaments and chrome bumpers from junk vehicles at the site.
- Earth Tech personnel moved a scrap metal pile at the site along the main access road. Prior to this, Mr. Skinner had the scrap metal parts segregated. Some of the scrap metal included expensive vehicle axles. Mr. Skinner will now have to reorganize the scrap metal pile.
- Earth Tech should have their own construction entrance and access road from Cincinnati-Dayton Road leading to the site.
- Mr. Skinner does not want construction work to take place on the weekends.
- Mr. Skinner does not want us to trespass on the west-side property where a large contaminated soil excavation zone is located.

29 May 2001 (Tuesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)
Earth Tech, additional employees

Randy Anschultz (Pro Terra)
Pro-Terra, additional employees
Bruce George (Geo-Solutions Incorporated)
Michael Brady, U.S. EPA oversight (WESTON)

Earth Tech and its subcontractors continued construction of the soil-bentonite slurry trench cut-off wall along the south perimeter of the landfill. The PC400 Long Reach excavator arrived at the Skinner site on Friday (5/25/01) and it was assembled. Construction of the slurry wall resumed using the PC400. The smaller PC200 excavator was used to mix the backfill slurry just northeast of the trench. Moreover, the PC200 excavator was used to introduce the backfill slurry into the trench.

A life ring and rope are being kept near the slurry trench installation due to the dangerous nature of construction activity.

Depths to the top-of-bedrock and key into the bedrock were recorded in field logbook and on the markers were placed adjacent to the trench. The cut-off wall was advanced laterally from marker 3+78 to 4+60. Field tests were completed on the slurry materials (water, additives, bentonite, backfill, soils), slurry mix and backfill slurry in accordance with the American Society for Testing Materials (ASTM) standards listed in Section 02395 of the Remedial Design Phase I Report. Some of the field tests included measurements of slurry viscosity, specific gravity, pH and backfill slurry slump and permeability.

There was no grading, soil compaction, compression testing, or land surveying conducted.

Earth Tech sampled the aboveground storage tank (AST), labeled 'Diesel'. The liquid in the AST was a dark thick liquid. Samples from the AST were placed on ice and sent directly to the contract laboratory. No HazCating of the AST samples was done. The AST was sampled following the approved sampling plan.

30 May 2001 (Wednesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)
Earth Tech, additional employees
Randy Anschultz (Pro Terra)
Pro-Terra, additional employees
Bruce George (Geo-Solutions Incorporated)

Michael Brady, U.S. EPA oversight (WESTON)

Earth Tech and its subcontractors continued construction of the soil-bentonite slurry trench cut-off wall along the south perimeter of the landfill using the PC400 long-reach excavator. Depths to the top-of-bedrock and key into the bedrock were recorded in field logbook and on the markers adjacent to the trench. The cut-off wall was advanced laterally from marker 4+60 to 5+80. Field tests were completed on the slurry materials (water, additives, bentonite, backfill, soils), slurry mix and backfill slurry in accordance with the American Society for Testing Materials (ASTM) standards listed in Section 02395 of the Remedial Design Phase I Report. Some of the field tests included measurements of slurry viscosity, specific gravity, pH and backfill slurry slump and permeability.

There was no grading, soil compaction, compression testing, or land surveying conducted.

Earth Tech sampled the process AST at the southwest lobe of the landfill using a hand auger. The material in the tank was a stiff, rubbery substance, malleable enough to be sampled using a hand auger from the top access port. Confined space entry was not necessary.

The samples from the AST were placed on ice and sent directly to the contract lab. No HazCating of the process AST samples was done. The process AST was sampled following the approved sampling plan.

Additionally, Earth Tech sampled the water holding tank located at the proposed eastern-most location of the interceptor trench. Seep or leachate water was contained in the water holding tank. Final disposition of the contained seep or leachate water is yet to be determined.

31 May 2001 (Thursday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)
Earth Tech, additional employees
Randy Anschultz (Pro Terra)
Pro-Terra, additional employees
Bruce George (Geo-Solutions Incorporated)
Michael Brady, U.S. EPA oversight (WESTON)

Earth Tech and its subcontractors continued construction of the soil-bentonite slurry trench cut-off wall along the south perimeter of the landfill. Depths to the top-of-bedrock and key into the bedrock were recorded in field logbook and on the markers adjacent to the trench. The cut-off wall was

advanced laterally from marker 5+80 to 6+00. Field tests were completed on the slurry materials (water, additives, bentonite, backfill, soils), slurry mix and backfill slurry in accordance with the American Society for Testing Materials (ASTM) standards listed in Section 02395 of the Remedial Design Phase I Report. Some of the field tests included measurements of slurry viscosity, specific gravity, pH and backfill slurry slump and permeability.

Construction of the slurry wall was postponed at approximately 1:00 p.m. for several hours due to heavy rain and a hydraulic line leak on the PC400. The hydraulic leak developed late Thursday (31 May 2001). Pro Terra built a soil berm to temporarily contain the hydraulic fluid that leaked from the PC400. Pro Terra also used absorbent pillows to try to contain the hydraulic fluid to one area. The absorbent pillows were eventually removed from the bermed area and stored in 55-gallon overpack drums on-site in accordance with Section 02100 of the Remedial Design Phase I Report. The underlying soil impacted by the hydraulic fluid were not removed. The hydraulic lines on the PC400 will eventually be re-routed to avoid contact with the sidewalls of the trench so this problem may be avoided.

There was no grading, soil compaction, compression testing, or land surveying conducted.

Erosion on the north bank of the creek, at approximately 5+80, has caused the security fence to separate from the soil and is hanging over the creek. Riprap may be required to slow erosion of the bank. A drainage pipe has been installed near the stake 1+00, the runoff water flows directly into the creek.

Biologist Jim Keith (Earth Tech) was on-site conducting a stream study. Earth Tech measured and recorded stream parameters, e.g. pH, dissolved oxygen and specific conductance. Earth Tech also studied the macro-invertebrate organisms in the stream.

There were a number of visitors on-site for a project meeting that was held at the site trailer. Visitors included Scott Hansen (U.S. EPA); Ben Baker (DOW SLG); Ron Roelker (Earth Tech); Rick Warwick (Earth Tech); Chris Moses (Earth Tech); and several others. A site walk was conducted following the project meeting.

01 June 2001 (Friday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)
Earth Tech, additional employees
Randy Anschultz (Pro Terra)
Pro-Terra, additional employees
Bruce George (Geo-Solutions Incorporated)

David E. Estes Engineering, Inc. employees (surveyors)
Bowser-Morner (drillers)
Michael Brady, U.S. EPA oversight (WESTON)

Construction of the slurry wall was postponed for the day as a result of a PC400 excavator hydraulic line leak that developed late Thursday (31 May 2001). Pro Terra built a soil berm to temporarily contain the hydraulic fluid that leaked from the PC400. Pro Terra also used absorbent pillows to try to contain the hydraulic fluid to one area. The absorbent pillows were eventually removed from the bermed area and stored in 55-gallon overpack drums on-site in accordance with Section 02100 of the Remedial Design Phase I Report. The impacted soil from the hydraulic fluid leak has not yet been removed.

There was no grading, or soil compaction testing conducted at the site. However, David E. Estes Engineering, Inc. continued with Global Positioning System (GPS) and other surveys along the slurry wall and at the landfill as the trench was advanced and as slopes along the landfill were graded and re-graded, respectively.

Due to heavy rainfall at the site, run-off sampling was completed by Earth Tech. The only sample point was located along the East Fork of Mill Creek near the east end of the slurry wall construction. Field, duplicate, and MS/MSD run-off samples were collected at the time.

04 June 2001 (Monday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio

Jason Guenther, Site Manager (Earth Tech)
Earth Tech, additional employees
Randy Anschultz (Pro Terra)
Pro-Terra, additional employees
Bruce George (Geo-Solutions Incorporated)
David E. Estes Engineering, Inc. employees (surveyors)
Bowser-Morner (drillers)
Michael Brady, U.S. EPA oversight (WESTON)

Construction of the slurry wall was postponed for several hours until heavy rain subsided. The cut-off wall was advanced laterally from marker 6+40 to 6+80 on Saturday, 2 June 2001.

Earth Tech continued regrading the landfill debris from the east-northeast section of the main fill area

and covering it with soil from the southern borrow area. Earth Tech also continued grading the landfill and building access roads to different areas of the site. Additional silt fence was installed along the west perimeter landfill fence. Air monitoring was conducted by Earth Tech using a Micro Tip Photo-ionization detector (PID) and a Data Ram aerosol monitor.

David E. Estes Engineering, Inc. continued with Global Positioning System (GPS) and other surveys along the slurry wall and at the landfill as the trench was advanced and as slopes along the landfill were graded and re-graded, respectively.

Earth Tech and Bowser-Morner (drilling subcontractors) abandoned ground water well GW-25 in accordance with the State of Ohio Technical Guidance Document for Sealing Unused Wells. The 2-inch well was over-drilled using 4 1/4-inch augers. Polyvinyl Chloride (PVC) casing and screen were removed however; the lower portion of the screen was left in the hole and grouted up. The boring was completely sealed with neat cement/bentonite slurry. A Water Well Sealing Report will be completed by Earth Tech and submitted to the Ohio Department of Natural Resources (ODNR).

There were no observed deviations from the remedial design or construction implementation specifications and no deviations from the U.S. EPA planning documents.

05 June 2001 (Tuesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Jason Guenther, Site Manager (Earth Tech)
Earth Tech, additional employees
Randy Anschultz (Pro Terra)
Pro-Terra, additional employees
Bruce George (Geo-Solutions Incorporated)
David E. Estes Engineering, Inc. employees (surveyors)
Mr Ray Skinner and associates
Michael Brady, U.S. EPA oversight (WESTON)

Earth Tech and its subcontractors continued the construction of the soil-bentonite slurry trench cut-off wall along the south perimeter of the landfill. Depths to the top-of-bedrock and key into the bedrock were recorded in the field logbook and on the markers adjacent to the trench. The cut-off wall was advanced laterally from marker 6+80 to 7+00. Field tests were completed on the slurry materials (water, additives, bentonite, backfill, soils), slurry mix and backfill slurry in accordance with the American Society for Testing Materials (ASTM) standards listed in Section 02395 of the Remedial Design Phase I Report. Some of the field tests included measurements of slurry viscosity, specific gravity, pH and backfill slurry slump and permeability.

Earth Tech was repairing the silt fence along the west perimeter of the fill area. The silt fence along the southern perimeter is completely buried.

The PC400 excavator had yet another leak when a hydraulic line was torn loose during the trench excavation. This was the 3rd hydraulic line leak since construction of the slurry wall began on 29 May 2001. Construction of the slurry wall was postponed for several hours until the PC400 was repaired toward the end of the day. Note that the hydraulic lines on the PC400 will eventually be re-routed to avoid contact with the sidewalls of the trench so this problem may be avoided.

Hydraulic fluid from broken lines on the PC400 have been confined to the slurry wall trench or cleaned up using absorbent pillows. Absorbent pillows were used to soak up the hydraulic fluid in the trench, and the pillows were eventually removed from the trench and stored in 55-gallon overpack drums on-site in accordance with Section 02100 of the Remedial Design Phase I Report.

Additional rock teeth were installed on either side of the PC400 excavation bucket to widen the trench from 24 inches to approximately 30 inches. The side teeth allow more room for the PC400 to maneuver within the trench.

Mr. Skinner and associates were on site attempting to start the large bucket crane. They were not wearing appropriate PPE.

Earth Tech continued regrading the landfill debris from the east-northeast section of the main fill area and covering it with soil from the southern borrow area. Earth Tech also continued grading the landfill. Air monitoring was conducted by Earth Tech using a Micro Tip Photo-ionization detector (PID) and a Data Ram aerosol monitor.

David E. Estes Engineering, Inc. continued with Global Positioning System (GPS) and other surveys along the slurry wall and at the landfill as the trench was advanced and as slopes along the landfill were graded and re-graded, respectively.

There were no observed deviations from the remedial design or construction implementation specifications and no deviations from the U.S. EPA planning documents.

06 June 2001 (Wednesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Michael Brady, U.S. EPA oversight (WESTON)

Jason Guenther, Site Manager (Earth Tech)

Earth Tech, additional employees

Randy Anschultz (Pro Terra)
Pro-Terra, additional employees
Bruce George (Geo-Solutions Incorporated)
David E. Estes Engineering, Inc. employees (surveyors)
Columbus Equipment Company representatives

Earth Tech and its subcontractors continued construction of the soil-bentonite slurry trench cut-off wall along the south perimeter of the landfill. Depths to the top-of-bedrock and key into the bedrock were recorded in field logbook and on the markers adjacent to the trench. The cut-off wall was advanced laterally from marker 7+00 to 7+20. Field tests were completed on the slurry materials (water, additives, bentonite, backfill, soils), slurry mix and backfill slurry in accordance with the American Society for Testing Materials (ASTM) standards listed in Section 02395 of the Remedial Design Phase I Report. Some of the field tests included measurements of slurry viscosity, specific gravity, pH and backfill slurry slump and permeability.

Water level in the creek is higher than normal and is very turbid.

Earth Tech continued regrading the landfill debris from the east-northeast section of the main fill area and covering it with soil from the southern borrow area. Earth Tech also continued grading the landfill and building access roads to different areas of the site. Additional snow fence was installed along the south perimeter at erosion areas. Air monitoring was conducted by Earth Tech using a Micro Tip Photo-ionization detector (PID) and a Data Ram aerosol monitor.

David E. Estes Engineering, Inc. continued with Global Positioning System (GPS) and other surveys along the slurry wall and at the landfill as the trench was advanced and as slopes along the landfill were graded and re-graded, respectively.

Mike Sherron of Earth Tech worked on setting up a weather station at the site trailer.

There were no observed deviations from the remedial design or construction implementation specifications and no deviations from the U.S. EPA planning documents.

07 June 2001 (Thursday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Michael Brady, U.S. EPA oversight (WESTON)
Jason Guenther, Site Manager (Earth Tech)

Earth Tech, additional employees
Randy Anschultz (Pro Terra)
Pro-Terra, additional employees
Bruce George (Geo-Solutions Incorporated)
David E. Estes Engineering, Inc. employees (surveyors)

Earth Tech and its subcontractors continued construction of the soil-bentonite slurry trench cut-off wall along the south perimeter of the landfill. Depths to the top-of-bedrock and key into the bedrock were recorded in field logbook and on the markers adjacent to the trench. The cut-off wall was advanced laterally from marker 7+20 to 7+70. Field tests were completed on the slurry materials (water, additives, bentonite, backfill, soils), slurry mix and backfill slurry in accordance with the American Society for Testing Materials (ASTM) standards listed in Section 02395 of the Remedial Design Phase I Report. Some of the field tests included measurements of slurry viscosity, specific gravity, pH and backfill slurry slump and permeability.

The PC400 had another hydraulic leak. Absorbent pads were used to soak up the spilled hydraulic fluid.

Earth Tech continued regrading the landfill debris from the northeast section of the main fill area and covering it with soil from the southern borrow area. Earth Tech also continued grading the landfill and building access roads to different areas of the site. Air monitoring was conducted by Earth Tech using a Micro Tip Photo-ionization detector (PID) and a Data Ram aerosol monitor.

David E. Estes Engineering, Inc. continued with Global Positioning System (GPS) and other surveys along the slurry wall and at the landfill as the trench was advanced and as slopes along the landfill were graded and re-graded, respectively.

More of the silt fence along the south perimeter is down or buried due to the heavy rains. New silt is being installed along the west perimeter.

There were no observed deviations from the remedial design or construction implementation specifications and no deviations from the U.S. EPA planning documents.

11 June 2001 (Monday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Michael Brady, U.S. EPA oversight (WESTON)
Jason Guenther, Site Manager (Earth Tech)

Earth Tech, additional employees
Randy Anschultz (Pro Terra)
Pro-Terra, additional employees
Bruce George (Geo-Solutions Incorporated)
David E. Estes Engineering, Inc. employees (surveyors)
Mr. Ray Skinner and associate

Earth Tech and its subcontractors continued construction of the soil-bentonite slurry trench cut-off wall along the south perimeter of the landfill. Depths to the top-of-bedrock and key into the bedrock were recorded in field logbook and on the markers adjacent to the trench. The cut-off wall was advanced laterally from marker 9+70 to 10+50. Field tests were completed on the slurry materials (water, additives, bentonite, backfill, soils), slurry mix and backfill slurry in accordance with the American Society for Testing Materials (ASTM) standards listed in Section 02395 of the Remedial Design Phase I Report. Some of the field tests included measurements of slurry viscosity, specific gravity, pH and backfill slurry slump and permeability.

Earth Tech continued regrading the landfill debris from the east-northeast section of the main fill area and covering it with soil from the southern borrow area. Earth Tech also continued grading the landfill and building access roads to different areas of the site. Air monitoring was conducted by Earth Tech using a MicroTip Photo-ionization detector (PID) and a DataRam aerosol monitor.

David E. Estes Engineering, Inc. continued with Global Positioning System (GPS) and other surveys along the slurry wall and at the landfill as the trench was advanced and as slopes along the landfill were graded and re-graded, respectively.

Mr. Skinner and associate worked to relocate a large (300 plus ton dipper rig) northwest of its location to make room for the interceptor tie in. The dipper rig was moved approximately ten to fifteen feet from its original location with more work yet to be completed. Earth Tech aided Mr. Skinner with personnel and the use of the Volvo dump trucks to help pull the crane. The dump trucks were not able to move the crane at all.

There were no observed deviations from the remedial design or construction implementation specifications and no deviations from the U.S. EPA planning documents.

12 June 2001 (Tuesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Michael Brady, U.S. EPA contractor oversight (WESTON)

Scott Hansen, Remedial Project Manager (U.S. EPA)
Jason Guenther, Site Manager (Earth Tech)
Earth Tech, additional employees
Randy Anschultz (Pro Terra)
Pro-Terra, additional employees
Bruce George (Geo-Solutions Incorporated)
David E. Estes Engineering, Inc. employees (surveyors)
Mr. Ray Skinner and associate

Earth Tech and its subcontractors continued construction of the soil-bentonite slurry trench cut-off wall along the south perimeter of the landfill. Depths to the top-of-bedrock and key into the bedrock were recorded in field logbook and on the markers adjacent to the trench. The cut-off wall was advanced laterally from marker 10+50 to 11+30. Field tests were completed on the slurry materials (water, additives, bentonite, backfill, soils), slurry mix and backfill slurry in accordance with the American Society for Testing Materials (ASTM) standards listed in Section 02395 of the Remedial Design Phase I Report. Some of the field tests included measurements of slurry viscosity, specific gravity, pH and backfill slurry slump and permeability.

Earth Tech continued regrading the landfill debris from the east-northeast section of the main fill area and covering it with soil from the southern borrow area. Earth Tech also continued grading the landfill and building access roads to different areas of the site. Air monitoring was conducted by Earth Tech using a Micro Tip Photo-ionization detector (PID) and a Data Ram aerosol monitor.

David E. Estes Engineering, Inc. continued with Global Positioning System (GPS) and other surveys along the slurry wall and at the landfill as the trench was advanced and as slopes along the landfill were graded and re-graded, respectively.

Earth Tech continued preliminary force main installation work near the tie-in to the sanitary sewer. A portion of the perimeter fence was removed. The dipper rig was successfully moved out of the way from its location near the tie-in to a location approximately 100 feet northwest. A representative from the Butler County DES is scheduled to meet with Earth Tech tomorrow (13 June 2001) about the tie-in to the sanitary sewer.

Mr. Scott Hansen conducted a site visit to observe the slurry wall construction work and to review current issues in regard to the construction implementation and remedial action at the Skinner Landfill.

There were no observed deviations from the remedial design or construction implementation specifications and no deviations from the U.S. EPA planning documents.

13 June 2001 (Wednesday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Michael Brady, U.S. EPA contractor oversight (WESTON)
Jason Guenther, Site Manager (Earth Tech)
Earth Tech, additional employees
Randy Anschultz (Pro Terra)
Pro-Terra, additional employees
Bruce George (Geo-Solutions Incorporated)
David E. Estes Engineering, Inc. employees (surveyors)
Jim Bradford (Butler County DES)
Mr. Ray Skinner and associate

Earth Tech and its subcontractors continued construction of the soil-bentonite slurry trench cut-off wall along the south perimeter of the landfill. Depths to the top-of-bedrock and key into the bedrock were recorded in field logbook and on the markers adjacent to the trench. The cut-off wall was advanced laterally from marker 11+30 to 11+90. Field tests were completed on the slurry materials (water, additives, bentonite, backfill, and soils) slurry mix and backfill slurry in accordance with the American Society for Testing Materials (ASTM) standards listed in Section 02395 of the Remedial Design Phase I Report. Some of the field tests included measurements of slurry viscosity, specific gravity, pH and backfill slurry slump and permeability.

Earth Tech continued regrading the landfill debris from the east-northeast section of the main fill area and covering it with soil from the southern borrow area. Earth Tech also continued grading the landfill and building access roads to different areas of the site. Air monitoring was conducted by Earth Tech using a Micro Tip Photo-ionization detector (PID), a Foxboro Century 128 Flame-ionization detector (FID), and a DataRam aerosol monitor. Additionally, a weather station was installed adjacent to the decontamination pad located in the northeastern section of the landfill.

David E. Estes Engineering, Inc. continued with Global Positioning System (GPS) and other surveys along the slurry wall and at the landfill as the trench was advanced and as slopes along the landfill were graded and re-graded, respectively.

Earth Tech continued preliminary force main installation work near the tie-in to the sanitary sewer. Jim Bradford from the Butler County DES met with the project engineer, Ronald Roelker (Earth Tech) about the force main tie-in to the sanitary sewer.

Earth Tech is looking at modification to the cut and fill plan. The original plan was to minimize use

of borrow area. Earth Tech would like to revise the plan to minimize the amount of fill material.

Earth Tech employees Aaron Benson and Jenny Downard completed surface water sampling at five stations along the East Fork of Mill Creek as part of their monthly surface water monitoring and sampling plan.

There were no observed deviations from the remedial design or construction implementation specifications and no deviations from the U.S. EPA planning documents.

14 June 2001 (Thursday)

The following personnel were present for construction implementation and remedial action at the Skinner Landfill in West Chester, Ohio:

Michael Brady, U.S. EPA contractor oversight (WESTON)

Jason Guenther, Site Manager (Earth Tech)

Earth Tech, additional employees

Randy Anschultz (Pro Terra)

Pro-Terra, additional employees

Bruce George (Geo-Solutions Incorporated)

David E. Estes Engineering, Inc. employees (surveyors)

Earth Tech and its subcontractors continued construction of the soil-bentonite slurry trench cut-off wall along the south perimeter of the landfill. Depths to the top-of-bedrock and key into the bedrock were recorded in field logbook and on the markers adjacent to the trench. The cut-off wall was advanced laterally from marker 11+90 to 12+50. Field tests were completed on the slurry materials (water, additives, bentonite, backfill, and soils) slurry mix and backfill slurry in accordance with the American Society for Testing Materials (ASTM) standards listed in Section 02395 of the Remedial Design Phase I Report. Some of the field tests included measurements of slurry viscosity, specific gravity, pH and backfill slurry slump and permeability.

Earth Tech continued regrading the landfill debris from the east-northeast section of the main fill area and covering it with soil from the southern borrow area. Earth Tech also continued grading the landfill and building access roads to different areas of the site. Air monitoring was conducted by Earth Tech using a Micro Tip Photo-ionization detector (PID), a Foxboro Century 128 Flame-ionization detector (FID), and a DataRam aerosol monitor. Additionally, a weather station was installed adjacent to the decontamination pad located in the northeastern section of the landfill.

David E. Estes Engineering, Inc. continued with Global Positioning System (GPS) and other surveys along the slurry wall and at the landfill as the trench was advanced and as slopes along the landfill

were graded and re-graded, respectively.

Earth Tech said that three days will be needed to prepare the access roads and perform other tasks prior to starting the interceptor trench construction.

There were no observed deviations from the remedial design or construction implementation specifications and no deviations from the U.S. EPA planning documents.

PHOTO-DOCUMENTATION



14 May 2001 - 55-gallon drum cluster, Skinner Landfill



14 May 2001 - Clearing and grubbing debris looking northwest, Skinner Landfill



14 May 2001 - Danger Keep Out EPA, Skinner Landfill



14 May 2001 - Southern borrow area looking northwest, Skinner Landfill



15 May 2001 - Fence along west side of Skinner Landfill looking South



15 May 2001 - Grading access roads looking southeast, Skinner Landfill



16 May 2001 - Observation well near slurry mix tank, Skinner Landfill



16 May 2001 - Staging 55-gallon drums looking west, Skinner Landfill



17 May 2001 - Capping southwest lobe, Skinner Landfill



17 May 2001 - Soil berm looking east, Skinner Landfill



17 May 2001 - Testing soil compaction with a densometer, Skinner Landfill



18 May 2001 -- Drum staging area looking northwest, Skinner Landfill



21 May 2001 – Drum Sampling, Skinner Landfill



21 May 2001 - Sampling slurry mix for viscosity testing, Skinner Landfill



22 May 2001 – HAZCAT Kit



23 May 2001 - Decon pad construction looking southeast, Skinner Landfill



29 May 2001 - Aaron Benson looking at shale bedrock, Skinner Landfill



29 May 2001 - Slurry-filled trench, Skinner Landfill



30 May 2001 - Collecting slurry sample for viscosity test, Skinner Landfill



30 May 2001 - Placing backfill mix in trench, Skinner Landfill



30 May 2001 - Slump test on backfill slurry, Skinner Landfill



30 May 2001 - Slurry wall trench work, Skinner Landfill



4 June 2001 - Bermed hydraulic spill, Skinner Landfill



4 June 2001 - Observation well GW25 abandonment, Skinner Landfill



5 June 2001 - Buried silt fence south perimeter, Skinner Landfill



5 June 2001 - Erosion along south perimeter, Skinner Landfill



6 June 2001 - Adding bentonite to slurry mix tank, Skinner Landfill



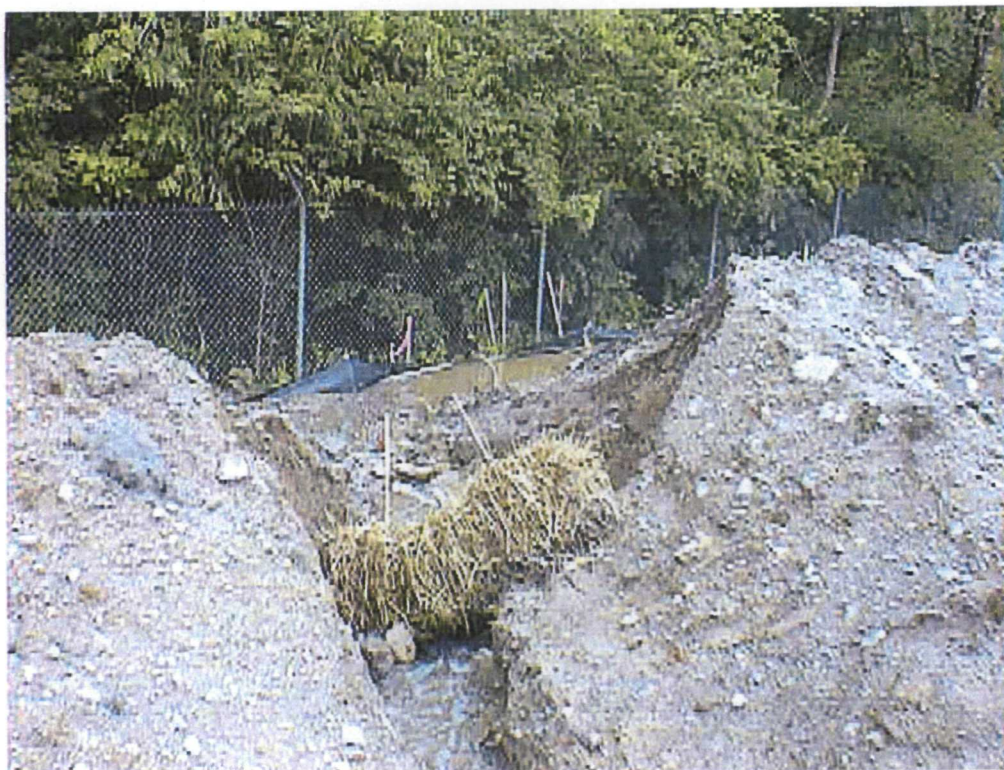
7 June 2001 - Discolored water looking southeast, Skinner Landfill



7 June 2001 - On-going excavation, Skinner Landfill



7 June 2001 - Silt fence installation looking southwest, Skinner Landfill



7 June 2001 - Washout at south perimeter, Skinner Landfill



11 June 2001 - Measuring the depth to top of bedrock, Skinner Landfill



11 June 2001 - Slurry wall construction looking northeast, Skinner Landfill



11 June 2001 - Slurry wall construction looking northeast, Skinner Landfill



12 June 2001 - Aaron Benson evaluating shale bedrock, Skinner Landfill



12 June 2001 - Top of landfill looking southeast, Skinner Landfill



13 June 2001 - Relocating landfill debris, Skinner Landfill



13 June 2001 - Stream sampling, Skinner Landfill



13 June 2001 - View of slurry wall construction from top of landfill, Skinner Landfill



14 June 2001 - High turbidity in creek from rainfall, Skinner Landfill

COPIES FROM FIELD LOG BOOK

4/11/01

JGH

9:00 AM Arrive on site for meeting. On hotel here;

GPA, BARTINTEC, KING, PASTOREA

↳ Scott Hansen - GPA

Pre Construction mtg

Ben Baker - PRP - Dow

Ron Rucker - engineer

- use construction entrance

- 2 compartment - landfill cap

3 interceptor Traps + skimmer

① Traches

② wells + piezometers

③ cap.

Scrap material to be moved by landfill owner
agreements being worked out; 10 days to go

Start Clearing + Grubbing - Monday 16 April

Erosion control plan - may not be required
meet intentPermit for digging into landfill - not required
because superficial site.

Fences to be checked

Schedule to be worked out - in Microsoft Project

7 Documents associated w/ project

3rd - Scott Hansen - WUSTON
(oversight)

BARTINTEC (Erick Warrance)

Pet Higgins - CPA manager (Ron)

WUSTON CAN NOT MAKE A DECISION

WUSTON CAN NOT ASK CONTRACTOR TO DO
ANYTHING - WILL BRING TO ATTENTION

JASON GUNTHER - BARTINTEC FIELD

Sub. Habs - monthly reports

monthly Project meetings

Daily Sign-In - Register + Tracker

* Check in @ Trailer first
- let someone know if Leaving
Man attending main kick-off safety mtg
after clearing & grubbing - 2-3 hrs.
158 days on site
finish by Oct 15th

11:00 AM MEETING ENDED

[Handwritten signature]

4/18/01

7:30 AM - Arrive on site

Talked to bulldozer operator; built road around site along fence line yesterday.

Talked to Taber - silt manager - not sure when going to get Trailer out on site. Plan to start on entrance side and work back.

7:40 Silt fence delivered to site.

7:45 Safety Tailgate meeting

7:50 Workers start putting in perimeter silt fence.

Total 4 workers from Earth Tech on site
Weather: fairly clear; cold

8:15 Surveyor on-site to review job

8:40 King demolition delivers equipment to site.

8:55 Left site.

[Signature]

4/20/01

~~4/10/01~~

7:10 AM Arrived on site, Weather cool, sunny

Approximately 7 workers on-site,
5 pieces of heavy machinery

On the way in to the site noticed
many large trees that had been cut
down + stumps of branches piled up
on side of road. A noticeable amount
of scrap has been cleared away

Talked to Jason, Earth Tec foreman
Everything going well. Lots of trees with
little room to place them. He said
Skinner has been moving slowly getting
rid of scrap. Waiting for Skinner to
remove a couple of tanks on-site.

Skinner had someone come in to take
out the trees that were piled up.
Waited more but Earth Tec can't
wait.

Jason said needs to clear area
some more before he'll have room
to bring in Trailer.

I walked perimeter about 1/2 mi
to back. There's been a lot of clearing
on the side slopes. Silt fence is in
along the fence line but has also
broken and torn in places.

Main work being done on
face of slope at front of site. Bulldozers
being used to knock down and move
trees.

5:40 left site



4/25/01

M. BRADY

0900. ARRIVED @ SITE & SPOKE W/ AARON BENSON.
GRUBBING AND BUILDING AN ACCESS RD
NEAR GATE 4. PRP (KING) IS ALSO ON SITE
W/ HEAVY EQUIP. REMOVING TREES & SHRUBS
NEAR GATE 4.

AARON SAID THAT PRO TERRA WILL PROBABLY
BUILD THE SLURRY WALL @ THE LANDFILL
MANY TREES ETC STOCKPILED DOWN SLOPE
OF THE NEW ACCESS RD

SPOKE W/ JASON - CONST. MGR. CARR H'S
GUY & SITE H'S

JASON SAID - 2 MORE WKS FOR GRUBBING
TRENCH & SLURRY WALL TO GO IN 1st
BIF GROUND. LINDER & CLAY LAYERS
TRENCH IS TO BE 1300 - 1400 FT LONG
~ 12 - 15' TO 31R. THE TRENCHING
WILL GO ~ 2' INTO 31R


JASON POINTED OUT OLD ORDNANCE NOTED
BOMB STRUCTURE @ LANDFILL ALSO A LOG
CABIN & POSSIBLY GRAVES @ LANDFILL WHERE
GRUBBING IS GOING.

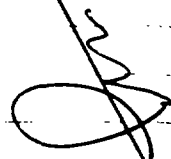
THE CLAY CAP & LINDERS WILL BE SEWN
TOGETHER AFTER TRENCH IS DONE.
DRAINAGE DITCHES & INTERCEPTOR TRENCHES
TO BE DONE ALSO.

TRUCKER TO ARRIVE TOMORROW
ELECTRICITY HOOK UP LATER ON.
SOME SEC FENCE IS TORN THIS IS
APP. LOCATION OF SLURRY WALL
BORROW AREAS TO BE RECLAIMED &
SOLS RECLAIMED DOWN SLOPE & TOWARD
TRENCH

1030

LEFT SITE

 4/25/01

A handwritten signature, possibly reading "J. S.", is written across the page.

4/25/01

5/1/01

1130 arrived on site. Weather
humid, sunny, 80° m

1140 Walked access road to north
end. Spoke to trackhoe operator from
King. He said still clearing and
grubbing. Said Jason from Earth
& Tech should be on site somewhere.
1200 Spoke with Jason from
Earth Tech. Said they are 80%
done with clearing + grubbing.
Surveying of the South Slope is
ongoing. He hopes to begin some
grading of wall this week. Look
like a 5 man crew, breaking for
lunch. m

1215 Site H+S coordinator (Alex)
had me sign in. Jason said
everything is basically cleared,
they just need to get it to
stockpile area. Should be
completed by the end of the week.
He said for future visits, we
should sign in at trailer. Jason
said they are swapping equipment
today to speed up stockpiling
process. m

1245 Walked perimeter of landfill,
looks like 3 machines clearing.
David Ester Engineering is
conducting land survey. Many
trees piled along slope on west
side of landfill near entrance.
1430 left site m

5/4/01
1130

arrived at Site, signed in at trailer. H+S officer (Alex) said USEPA and CERCLA were here yesterday. Still no electricity in trailer, but do have phone service and fax. RPO (Responsible Project Oversight) Aaron said they are still clearing, will probably be done in 1/2 week (by Wednesday). Asked Aaron if Work Plan was in trailer. He showed me where they are kept. There is a Construction Plan and 3 volumes of remediation Plan. Route to hospital is posted in trailer. Construction Schedule is in back of Construction Plan document. They have 15 days allotted for clearing and grubbing and total project duration is 246 days. Remedial Action Plan Schedule is in back of Construction Plan document also. HASP is sitting on shelf in trailer.

1145 Esterland Surveys are on site. Weather - Sunny, humid, 80°

1215 workers broke for lunch

1245 walking perimeter of landfill. Majority of slopes are cleared, stockpiles are at the front and on the west side.

5/4/01

Jason (Geo Tech Co)

Said many uprooted trees
bring up debris with them. They
may have to leave a couple of them
in the area. Looks like one
bulldozer operator working stockpiling
trees.

1315 Continuing walking perimeter,
several trees remain standing
along ~~east~~^{west} access road.

1320 Spoke with mgason. He said
Pro Terra is mobilizing on Monday
and will begin trenching most
likely the following Monday (May 14)
He said there is a meeting at
the site on Monday (May 14) and
he thinks it is around 10:00 am.
Ben Baker will be there and
maybe Scott Hanson. ——— m
1430 left site ——— m

Maria

Stefano

5/4/01

5/9/01 - Sunny, warm 70°

Arrived at site ~ 7:30 AM & signed in at Trailer. Construction signs were up yet for City Day road or to identify the field trailer. I was told that they are working on getting them.

I noted the Trailer phone numbers on the inside flap of the log book. Took a walk around the site.

Workers were repairing the fence in places. Observed several areas where sealed drums were staged. Also there was a pile of tires.

Other visual observations:

- personnel repairing perimeter fence
- grading at far end of site
- still are several areas where

Trees & brush haven't been removed

- perimeter fence near East Fork Mill Creek on south side has several posts that are unsupported by soil. Area under fence had completely eroded away.

- At one location a pipe was buried across access - and all water was draining out to Mill Creek.

- several dump trucks were arriving at site during visit.

Talked to Jason about observations:

- Drums to be sampled after meeting held with citizen's coalition.
- Decom pad to be constructed this week

- equipment & supplies for Trench to be delivered this week.

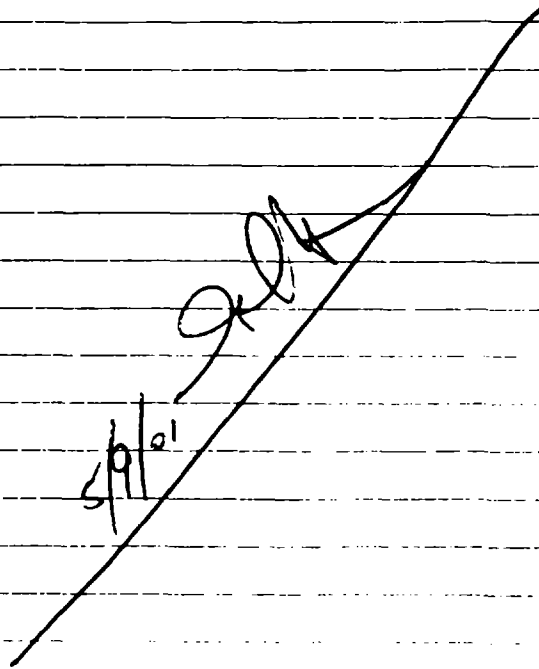
- CATS needs to come at end provide power to Trailer. Problem with permits for County, in terms of communications.

- Tires and other Trash will be buried in the landfill.

- Bales of hay must have washed away from drain, new ones will be placed.

- Jansen will look into some sort of warning Tape for fence area. Requested permission to put in gabions to hold the slope rather than just rip-rap.

Left the site approx 9:15 AM.



- 5/14/10 MONDAY M. BRADY
- 0735 ARRIVED @ SKINNER LF AND SIGNED IN @ THE TRAILER. SPOKE W/ JASON AARON & ALIEN ABOUT SITE DOCUMENTS & H'S PLAN. BRIEFLY REVIEWED THE H'S PLAN & SIGNED IT. EARTH TECH (ET) IS A BIT BEHIND SCHEDULE. THEY MAY START TRENCHING TODAY IF LAB RESULTS FM WFL COME BACK CLEAN.
- 0750 WALKED THE SITE. PHOTOS TAKEN OF SITE. Silt FENCE PARTLY DOWN @ TOP OF LF.
- 0820 BACK HOLE REMOVING SOIL FM LF. SLOPE TRUCK LOAD OF BENTONITE ON SITE FOR SLURRY WALL. CONTRACTORS ET, PROTEERRA AND ESTES ON SITE TESTS - SURVEYORS.
- 0900 ALIEN SAYS THAT CONSTRUCTION STANDS ATE ON ORDER.
- 0915 SPOKE W/ RALPH DIFONZO AND GREG BARKEN OF DAVID ESTES, ENGR. ABOUT GPS SURVEYS. THEY'RE USING TRIMBLE EO FOR RTK AND STATIC GPS SURVEYS W/ A BASE STATION SET @ TOP OF LF. WALKED THE TOP OF THE LF FOR A BETTER VIEW OF CONSTRUCTION WORK.
- 1030 SPOKE W/ RALPH ANSCHUTZ OF PROTEERRA ABOUT SLURRY WALL. THE TRACK HOLE SHOULD ARRIVE TOMORROW. WORK MAY BEGIN TOMORROW OR WED.
- 1045 ADDL ET EMPLOYEES ARRIVE FOR DRUM SAMPLING. A NUMBER OF DRUMS HAVE

5/14/01 MONDAY.

BRENN STAGED NEAR TOP OF LF. M. BRADY
 CORR. H & S GUSH ATTENDED THE
 CITIZENS COALITION LAST WK. HE SAID THAT
 IT WENT WELL MUCH DISCUSSION ABOUT
 AIR MONITORING. NO PERIMETER AIR
 MONITORS ARE IN PLACE NOW. BUT HE BROUGHT
 AIR MON TO TODAY. ET WILL HANDLE DRUM
 SAMPLING TODAY BUT THEY'RE NOT SURE
 WHAT THE DISPOSITION OF DRUMS WILL BE

1130. ET UNDER DIRECTION OF JASON AND MIKE
 SHARRON WILL SAMPLE DRUMS TODAY.
 USING DRUM THROTLES FOR LIQUIDS AND
 SPADIES FOR SOLIDS. THEY'RE NOT SURE
 ABOUT THE DRUM CONTENTS.

1155 A 2ND LARGE VOLVO DUMP TRUCK ARRIVES.
 REVIEWED CONSTRUCTION IMP. PLAN.

1200 LUNCH

1230 C SITE

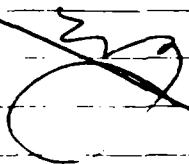
1240. SITE CHECK. DRUM INVENTORY TODAY
 BY MIKE SHARRON OF E.T.
 ESTES CONTINUING TO SURVEY.

1310. PAT OF E.T. (GEOLOGIST) WILL EVENTUALLY
 INSTALL 9 WELLS AND 12 PIEZOMETERS.
 THERE ARE 5 EXISTING MON. WELLS
 MEETING TODAY W/ E.T. PERSONNEL.

FOR FORLEKER ET. AND PAT HIGGINS. E.T.
 NO ~~DRUM~~ THE DRUMS MAY BE SAMPLED
 STARTING TOMORROW. 3 GROUPS OF
 DRUMS AND A DOZEN SCATTERED
 THROUGHT THE SITE. B PPE TO BE USED.
 THE WELLS & PIEZOMETERS WILL BE
 INSTALLED AFTER TRENCH IS INSTALLED.

1430 MTG C TRAYER W/ E.T. & PRO TERRA

5/14/01 MONDAY
 TRENCH TO BEGIN W/FED W/PROTECTOR M. BRADY.
 TRENCH RE ALIGNMENT APPROVED
 SURFACE WATER SAMPLING TO BE
 CONDUCTED TOMORROW.
 DRUM SAMPLING TOMORROW AS WITH
 1445 OM P. CALLED ABOUT PROGRESS.
 M. BRADY PROVIDED DETAILS
 OM IS NOT AWARE OF SAMPLING PLAN
 APPROVAL FM SCOTT HANSEN.
 OM HASN'T RECD EPA COMMENTS YET.
 WHEN IS HIS MTG @ SITE?
 MIKE SHEPPON SAYS NEXT MONDAY
 5/21/01. OM ALSO WANTS US TO
 REVIEW QA RPT OR DAILY RPTS FM E.T.
 1515. SPOKE W/ GORDON HORN ABOUT
 TODAY'S PROGRESS (313) SET 4000 DETPO.T.
 I RELAYED INFO TO GORDON.
 DRUM & STREAM SAMPLING SCHEDULED
 FOR TUESDAY TRENCHING W/FED.
 OM MAY BE ON SITE W/FED OR TH TO
 OBSERVE TRENCHING.
 1600 LEFT SITE FOR OFFICE
 1630. @ THE OFFICE DOWNLOADED &
 REVIEWED SITE PHOTOS


 5/14/01

5/15/01 TUESDAY

M. BRADY

0745. ARRIVED @ SKINNER LF. SPOKE W/

M. KE SHEPSON ABOUT SAMPLING EVENTS

TODAY. DRUM SAMPLING SCHEDULED IN

LEVEL 'B'. STREAM SAMPLING MAY NOT

OCCUR TODAY OVERCAST AND TO F

WALKED THE SITE. TRACK HOLE AND

DUMP TRUCKS MOVING SOIL FOR GRADING

0840. E-T FIELD CREW DUMPS DRY ICE INTO

ONE 55 GAL. DRUM TO KILL DEER.

0900. BOBCAT ON SITE TO MOVE DRUMS FOR
SAMPLING

RICK WARMICK ON SITE. E-T IS

TRYING TO LOCATE A WATER HAULER

FOR THE SHIPPY. EVIDENTLY THE

TWO DRINKING WATER WELLS ON SITE

HAVE ARSENIC LEVELS ABOVE A

TRIGGER LEVEL BUT BELOW MCLs.

THEREFORE THEY WON'T USE THE

ON SITE GROUND WATER.

SPOKE W/ RANDY OF PROTERRA ABOUT

THE CUT-OFF WALL INSTALLATION.

THIS MAY NOT START UNTIL THURSDAY
NOW.

0930. RICK CONTACTED A LOCAL WATER HAULER

WHO MAY BE ABLE TO DELIVER

WATER IN VAC TRUCKS

0945. READ THRU EPA COMMENTS IN RE: TO

THE DRUM SAMPLING PLAN. CONCERNS

INCLUDE SPLASH PROTECTION, STAGING

AREA. SHOCK SENSATIVITY, PPE.

1000. RICK W. CONTACTED RON KOELKER

AND BEN (PRP) ABOUT EPA COMMENTS.

E-T WILL IMPLEMENT COMMENTS.

5/15/01 TUESDAY M. BRADY

E-T WILL USE LEVEL 'B' W/ SARANEX

2x12. BUILD A CONTAINMENT PAD.

W/ BOARDS AND PLASTIC LINER. &

COVER EVERYTHING W/ A TARP.

1045

SPOKE W/ PAT HIGGINS OF EARTH-TECH

HE MAY SAMPLE TOMORROW (WED.).

1100

WALKED THE SITE. MIKE SHERRON &

HIS CREW BUILDING A STAGING PAD

FOR DRUM SAMPLING AND DISPOSITION.

E-T CONTINUING TO BUILD ACCESS RDS

AND GRADE THE SITE. PROTERRA IS

SETTING UP EQ FOR CUT-OFF WALL

INSTALLATION.

NOTE: E-T LOCATED APPROX 75 DRUMS

SCATTERED ACROSS THE LF PORTION

OF THE SITE.

1130

LEFT SKINNER L.F. FOR THE OFFICE.

1200

C THE OFFICE. EDIT PHOTOS.

SPOKE W/ OM & GORDON ABOUT

PROGRESS AND HIS MTG SCHEDULED

FOR WED E. NOON.


1330

SPOKE W/ M. WEDNIEP ABOUT HIS

MTG. HE CANNOT MAKE THE MTG.

1345

EDIT SITE PHOTOS TO INCLUDE CAPTION.

 5/15/01

5/16/01. WEDNESDAY

M. BRADY

0745- ARRIVED C SKINNER L.F. HOT. HUMID. ~ 70°F

E.T. IS MOVING A FEW DRUMS TO THE STAGING AREA. THEY HAVE THE EQ. NEEDED TO SAMPLE DRUMS.

MIKE SHEPSON IS LOOKING INTO OVERPACK DRUMS FOR THE RUSTED AND BULGING 55-GAL DRUMS.

0835- E.T. IS MOVING L.F. DEBRIS AWAY FROM THE SOUTH FACE OF THE L.F. E.T. FIELD CREW WORKING ON THE BOBCAT STAINED SOIL NEARBY. THE EQUIPMENT MAY HAVE LEAKED HYDRAULIC FLUID.

0910. RON ROELKER BELIEVES TRENCHING WILL BEGIN TOMORROW (THURS.).

0915- REVIEWED THE SITE WORKING PLANS/BLUE PRINTS FOR THE VARIOUS PHASES OF THE PROJECT.

1000. CONDUCTED A WILSON H'S COMPLIANCE AUDIT.

1045- E.T. STAGING DRUMS ON PAD C TOP OF LANDFILL AIR MONITORS ARE BEING USED. SEE PHOTOS. DARK CLOUDS MOVING IN FROM THE NE.

1150. THUNDER & LIGHTNING. WORK STOPPED FOR H'S MTG. C SITE TRAILER. ALL WORKERS @ THE TRAILER.

1225- SLIP, TRIP & FALL HAZ. Hvy EQ. CHEM HAZ. VOL., SEMI-VOL PAD MONITORING EQ ON SITE INCLUDING A RAD METER. CONTACT JASON GUNTHER OR M. KE SHEPSON OF INCIDENTS.

5/16/01 WEDNESDAY

M. BRADY

JASON IS THE PRIMARY H&S OFFICER

MIKE SHEPPON IS ALTERNATE

ONE INCIDENT ON-SITE MONDAY

EMPLOYEE FM ALT W/ B'G LEFT SITE
W/ CHAST PAINSNO ONE GOES TO HOSPITAL ON THEIR
OWN.

INCLEMENT WEATHER - LIGHTNING

TORNADO'S MEET C TRAILER OR SCALE

PPE - LEVIE D IS P.O.D. - LONG SECREVES
NOT P.O.D.

TRENCHING BRUCE 2' CLEARANCE

C TRENCH. CLEARANCE FM SWING

RADIUS OF TRACK HOES

HEAT STRESS - CHANGE IN APPEARANCE
AND ATTITUDE BE AWARE.IF LIGHTNING OCCURS, WORKERS WILL
WAIT 30 MINS B4 STARTING WORK
AGAIN.1315 M. BRADY & M. STEFANOFF WALK
THE SITE. E.T. CONTINUE TO STAGIE
DRUMS C TOP OF LF.E.T. WORKING C GETTING WATER
FOR THE SLURRY.1400 ANOTHER LIGHTNING ALERT. LEFT
SKINNER FOR OFFICE1430 C THE OFFICE - EDITING SITE PHOTOS
REVIEWING DOCS SENT BY DM

3

5/16/01

5/17/01 THURSDAY

0750 ARRIVED C. SKINNER L.F. HOT & V. HUMID M. BRADY.
~ 70 F. E.T. IS STAGING DRUMS ON
TOP OF L.F. AREA.

WATER IS STILL BEING BROUGHT
ON SITE USING VAC TRUCKS.

0830 SPOKE W/ OM ABOUT EPA COMMENTS
IN RE: TO THE SAMPLING PLAN.
OM FAX'D A COPY TO THE SITE
TRAILER. WESTON'S COMMENTS NOT TO
BE PROVIDED TO E.T. PERSONNEL

0900 REVIEWED REMEDIAL DESIGN PLAN.
THE WATER IS COMING FROM THE
BUTLER COUNTY WATER TREATMENT
PLANT.

0930 E.T. PERSONNEL STAGING DRUMS
IN LEVEL B. EMPTY DRUMS ARE
BEING LEFT ON SITE IN PLACE.

0945 E.T. GRADING THE DECON PAD AREA
WASTE MTL IS BEING COATERED
W/ 12" LFTS FROM BORROW AREAS.
TWO COMPACTION TESTS PER ACRE²
ARE BEING CONDUCTED BY ACT &
WITZIG.

1015 SPOKE W/ RON FORLKER ABOUT A
REVISED REMEDIAL ACTION DESIGN &
TANK SAMPLING PLAN. HE SAID THAT
ECK W. IS WORKING ON IT.
RANDY OF PRO TERRA & DRUCE. SIB
ARE CONTINUING TO PREP. FOR
TRENCHING. RANDY SAYS THAT
THE EXC. WORK SHOULD AVE. 100' / DAY.
HE SAYS THE CUT-OFF WALL TRENCH
WILL BE ~ 400' LONG.

5/17/01 THURSDAY

1100. COMPACTION TESTS CONDUCTED BY M. BRAZIN
 ART & WITZIG USING A DENSAMETER
 @ THE TOP OF THE LF. WHERE THEY'RE
 DUMPING SOIL. SOILS BEING TAKEN
 FROM THE SW BORROW AREA

1150 PAT HIGGINS (E.T.) ON SITE TO CONDUCT
 SURFACE WATER AND RUN OFF SAMPLING.

1200 LUNCH

1230 ON SITE

1240 WATER TRUCKS CONTINUE TO HAUL
 WATER TO THE TWO FRAC TANKS
 EACH 10,000 GAL. THE WATER TRUCKS
 HOLD ~ 2,000 GAL

1300. PAT HIGGINS (E.T.) COLLECTING SURF.
 WATER SAMPLES FROM THE CREEK @
 THE WESTERN MOST LOCATION.

1310. CLOUDY SKY, THUNDER & LIGHTNING
 LIGHTNING ALERT. HEAVY RAIN.

1330 LEFT SKINNER FOR OFFICE

1400 @ THE OFFICE EDITING SITE PHOTOS

WJZ
 5/17/01

5/18/01 FRIDAY

M. BRADY

0750 ARRIVED @ SKINNER L.F. OVERCAST V. HUMID!
LIGHT RAIN, 70°F.

SPOKE W/ JASON ABOUT WORK COMPLETED
YESTERDAY. NO SUBSTANTIAL PROGRESS
AFTER LIGHTNING ALERTS @ ABOUT 1310.

0830 WALKED THE SITE VERY MUDDY.
PRO TERRA STILL WORKING ON THE
SLURRY MIX EQ. TRENCHING HAS NOT
STARTED YET.

0845 E.T. CONTINUING TO STAGIE 55-GAL DRUMS
WITH CONTENTS. EMPTY DRUMS ARE LEFT
IN PLACE AND WILL EVENTUALLY BE
BURIED WITH THE REST OF THE FILL MTL
WORK CONDUCTED IN LEVEL 2.
NO AIR MON. EQ.

DRUMS IN STAGING AREA ARE NOW
BEING COVERED W/ PLASTIC SHEETING.
NONE OF THE DRUMS HAVE BEEN PLACED
IN OVER PACKS YET.

SNOW FENCE IS BEING INSTALLED AS
THE 'HOT' ZONE BOUNDARY. M. SHEFFON
SAYS THAT DRUM SAMPLING MAY
TAKE PLACE TODAY.

1005 PAT HIGGINS (E.T.) ON SITE TODAY
TO CONTINUE SURF. WATER SAMPLING
@ EAST FORK MUD CREEK

1015 AARON BENSON (E.T.) SAID THAT THEY WON'T
BE WORKING WEEKENDS PER THE CITY OF
WEST CHESTER.

1020 ART WITZIG ON SITE TO CONDUCT
COMPACTION TESTS

1030 E.T. COLLECTING SURF WATER SAMPLES @
2ND SAMPLE LOC. ALONG EAST FORK MUD CRK

5/18/01 FRIDAY

M. BRADY

1110. E.T. COLLECTING SURF WATER SAMPLES @
3RD SAMPLE LOCATION. RAY SKINNER
HELPER ON SITE TO WORK ON EQUIP.

NO HARD HAT, SAFETY GLASSES

1130 STAKE W/ RANBY OF PROTERIA TRENCH
WORK WILL NOT START TODAY. PROBABLY
MONDAY. THE LARGE '400' SERIES TRACK
HOLE SHOULD ARRIVE NEXT TUES AND
IT'LL TAKE ABOUT 1/2 DAY TO PUT TOGETHER.

1150 E.T. HAS FINISHED STAGING DRUMS ON TOP
OF L.F. THEY SHOULD BEGIN SAMPLING
TODAY IF THE WEATHER IS GOOD

1215 HEAVY RAIN AND THUNDER LUNCH

1245 BACK TO WORK.

1300. E.T. CONTINUES TO MOVE FIVE MT'L
CAP FILL E.T. MOVING DRUMS IN
STAGING AREA OVERPACKS BROUGHT OUT.

1345 M. SHEPHERD SAYS THAT NO DRUM
SAMPLING WILL BE CONDUCTED TODAY
DUE TO BAD WEATHER

1400. DARK CLOUDS, HEAVY RAIN. LEFT SKINNER
FOR OFFICE

1430. @ THE OFFICE.

5/18/01

5/21/01 MONDAY

M. BRADY

0740 ARRIVED C SKINNER LT OVERCAST AND
VERY HUMID WINDY. W S F EARTH
TECH CONSTRUCTION SIGNS HAVE BEEN
POSTED C LIN. DAY PD ENTRANCE AND
ALONG THE PRIVATE DRIVE LEADING TO
THE SITE.

0755 ACCORDING TO THE SCHEDULE IN THE
FIELD TRAILER, CONSTRUCTION OF THE
INTERCEPTOR TRENCH IS 2 WKS
BEHIND.

0815 EARTH-TECH, M. SHEPSON & HELPERS
ARE PREPARING TO SAMPLE STAGED DRUMS.
4 OF THE STAGED DRUMS ARE IN OLDER
OVERPACKS. LIGHT RAIN. OTHER E-T
PERSONNEL ARE CAPPING FILL MT'L NEAR
THE DRUM STAGING AREA.

0900. EARTH-TECH SAMPLING DRUMS. ROUGHLY
85-90 DRUMS IN THE 'HOT' ZONE.
LEVEL 'B' SUPPLIED AIR IS USED.

0950 HEAVY EQ OPS BUILDING ACCESS PDS.
C PERIMETER OF FILL AREA 12 INCH
LIFTS.

1040 MOST OF THE DRUMS SO FAR CONTAIN
SOIL, SOME PPE AND SOME LIQ.

1045 TRENCH WORK STARTED C EAST END
OF FILL ~ 10 FT NORTH OF SOIL BERM.

1135 TRENCH IS DIG USING A 200 SERIES
TRACK HOE. REACH IS ~ 18'. THE 400
SERIES IS EXPECTED TO ARRIVE

TOMORROW 1/2 DAY TO ASSEMBLE
1215 TRENCH IS ~ 40' LONG AND BPR IS
C ~ 9' BGS ACCORDING TO PENNY PRO
TERRA.

5/21/01 MONDAY

M. Bragg

1220. SUPPLY INTRODUCED 5' BENTONITE
PO TIEBA WITH MIX W/ SOME SO CONSISTENCY
IS SIMILAR TO THAT OF CEMENT.
- 1300 BIR IS MUCH SHALLOWER THAN EXPECTED
REACHING BIR @ 9' VS 15'
1330. EARTH TECH CONTINUING TO
SAMPLE DRUMS IN LEVEL B
- 1420 PREVENTED ORIGINAL REM ACTION
DRUM TANK SAMPLING PLAN. REVISED
PLAN NOT AVAILABLE
1430. M. SHERPON CONTACTED RICK W. ABOUT
THE REVISED PLAN
1500. LEFT SKINNER FOR OFF. CTR
1530. @ THE OFFICE EDITED PHOTOS

5/21/01

- 5/22/01 TUESDAY M. BRADY
- 1100 ARRIVED @ SKINNER LE PARTLY SUNNY
65°F MORE EARTH TECH CONSTRUCTION
SIGNS HAVE BEEN POSTED @ THE SITE
1130. EARTH TECH (M. SHEPSON) IS HAZCAT'ING
THE SOILS COLLECTED FROM THE STAGED
DRUMS. ROUGHLY 20 MORE STAGED
DRUMS NEED TO BE SAMPLED
1145. EARTH TECH IS BUILDING THE DECON PAD
FOR EQUIPMENT. FUMMITAL IS BEING
LOADED AND HAULED AWAY FROM THIS
AREA THIS IS THE SUSPECT MUSTARD
GAS AREA. JASON & M. SHEPSON SAY THAT
THERE HASN'T BEEN ANY INDICATION OF
MUSTARD GAS. EARTH TECH IS ALSO
MOVING DEBRIS & BUILDING ACCESS PDS
NEAR TWO SUSPECT 'BOMB' BURN
SITES. JASON SAID THAT THEY'LL REPLACE
THE MARKERS WHEN THEY'RE DONE
1230. PROTERRA IS NOT ON SITE. NO
TRENCH WORK TODAY. THE '400' HASN'T
ARRIVED YET. EVIDENTLY IT WAS
STOPPED IN-TRANSIT TO THE SITE &
WAS TURNED BACK TO FORT PERRY B/C
IT WAS BEING HAULED BY THE WRONG
TRUCK. IT MAY NOT ARRIVE NOW UNTIL
WED.
- 1235 COLUMBUS EQ. COMPANY HAS BEEN WAITING
ON SITE FOR THE ARRIVAL OF THE '400'
- 1300 LEFT SKINNER FOR OFFICE
- 1330 @ THE OFFICE

5/22/01

5/23/01 WEDNESDAY

M. BRADY

1230 ARRIVED @ SKINNER L.F. OVERCAST.

LIGHT RAIN. 65°F

1245. ADDITIONAL SILT FENCE, SNOW FENCE AND HAY OR STRAW BALES HAVE BEEN INSTALLED ALONG THE SOUTHERN PROPERTY BOUNDARY NEAR THE SOIL DIVERSION BERMS

1300. THE LARGE 400' TRACK HOLE HAS NOT ARRIVED YET. JASON DOESN'T KNOW WHEN IT'LL ARRIVE. COLUMBUS EQ. COMPANY IS NOT ON SITE.

1330. EARTH TECH IS WORKING ON BUILDING THE DECON PAD. THE AREA WAS FIRST GRADIED AND A SUMP INSTALLED. A GRAVEL BASE WAS THEN SPREAD WITHIN THE SOIL BERMS SURROUNDING THE DECON AREA. HEAVY PLASTIC MTL AND FELT WERE THEN PUT IN PLACE ON TOP OF THE GRAVEL BASE. ON TOP OF THE FELT, A SECOND LAYER OF GRAVEL.

1400. SPOKE W/ M. SHEPSON. THE ONLY DRUM SAMPLES COLLECTED TODAY WERE SMALL VOLUMES OF LIQUID STRICTLY FOR HAZCHT PROCEDURES. EARTH TECH HAS USED A M.CROTIP P.I.D AND LEL METERS DURING THE DRUM STAGING & SAMPLING.

1430. M. SHEPSON INDICATED THAT ONLY ONE AST IS TO BE SAMPLED. THIS AST CONTAINS DIESEL FUEL AN INTERFACE PROBE WILL BE USED TO CHECK THE VOL OF LIQUIDS.

5/23/01 WEDNESDAY

M. BRADY

THE LOCATION OF THE BURIED OR STORED
DRUMS HASN'T BEEN RECORDED PRIOR
TO BEING STAGED

ALL OF THE DRUMS HAVE BEEN SAMPLED
EXCEPT FOR 6 CONTAINING LIQ.

ALL DRUM SAMPLES HAVE BEEN ANALYZED
ONE SOIL SAMPLE HAS A pH OF 10.

A FEW OTHER SAMPLES CONTAIN
CHARINATED SOMETHING. THE DRUMS
CONTAINING LIQ. WILL BE OVERPACKED

DRUMS HAVEN'T BEEN PHYSICALLY
SEPARATED INTO CATEGORIES eg. SOIL.
LIQ. PPE

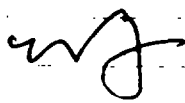
MOST DRUMS WERE OPENED USING
NON-SPARKING TOOLS. THE DRUMS
ARE ALL RUSTED, NOT SOUND STRUCTURAL.

ALL DECON WATER IS STORED IN A
55-GAL DRUM. PPE IS ALSO STORED IN
A 55-GAL DRUM.

1500 PERSONNEL ON SITE TODAY. ALEX SCOTT E.T.,
BRIAN MARSH E.T., KENNETH FINLEY E.T.,
TERRY LEFORD E.T., MIKE FUTSCHER,
MITCHELL COLLINS E.T., JOHN TUTTLE E.T.,
LARRY MILLER E.T., JASON GUENTHER E.T.,
AARON BENSON E.T., BILL ROBINSON E.T.,
FRED THOMAS E.T., MIKE SHERRON E.T.,
WAYNE WALTON PEPPO, RICK WARWICK E.T.,
CHRIS MOSES E.T., GREG BARKER ESTES,
JOHN TACKETT ESTES, BRUCE GEORGE
GSI.

1530 LEFT SKINNER FOR OFFICE

1600 C OFFICE.



5/23/01

5/24/01 THURSDAY

M. BRADY

- 0745 ARRIVED @ SKINNER L.F. OVERCAST AND
HEAVY RAINS. WOT. EARTH TECH IS
WORKING ON THE DIECON PAD.
- 0815 OM PATEL IS ON SITE MMB & OM
REVIEW DOCS. RELEVANT TO THE SITE
- 0830 SITE WALK. REVIEW WORK PLANS. AND
OTHER DRAWINGS.
- 0900 SPOKE W/ ROUN OF PRO TERRA. THE
LONG-BEACH TRACK HOPE SHOULD
ARRIVE IN ~ 3 HRS ACCORDING TO
SOURCES.
- 0930 EARTH TECH IS WORKING ON DIECON PAD.
SPOKE W/ JASON GWENTHER ABOUT
LINES OF COMMUNICATION AND
REPORTING TO ERA DAILY RPTS, ETC.
- 1045 SPOKE W/ MR SKINNER & HIS SON.
SEVERAL COMMENTS FM MR SKINNER.
- WHILE MOVING EQ, DIEB'S, ETC.
A DRUM OF OIL WAS OVERTURNED.
OIL SPILLED INTO EAST FORK MUD CRK.
MR SKINNER UPRUNTED THE DRUM.
 - TRUCKS ARE DRIVING TOO FAST
ALONG THE PRIVATE DRIVE LEADING
TO THE TRAILER & LF. MR SKINNER
INDICATED THAT HE MAY BLOCK
THE ENTRANCE. HIS SON'S CAR WAS
NEARLY HIT BY A WHITE TRUCK.
 - TRUCKS ARE LEAVING TOO MUCH
DRT & MUD ON HIS DRIVE AND
C ENTRANCE MONG C.N. DAY PD.
MR SKINNER HAD TWO WEST
CHESTER POLICE CARS OUT THIS
MORNING. TIRE WASH SHOULD BE USED.

5/24/01 THURSDAY.

M. BRADY.

- HUNTER GOING ON & OFF SITE ARE LEAVING PUTS IN HIS DRIVE. HE INDICATED THAT PUTS WERE NOT THERE BTF.
 - SOMEONE HAD BEEN MOVING OR ATTEMPTING TO MOVE HIS CRANES AND OTHER EQ.
 - SOMEONE HAS REMOVED CAR PARTS e.g. HOOD ORNAMENTS & CHROME DUMPIERS FROM HIS SITE.
 - KIDS TRIED TO BREAK INTO THE SITE TRAILER. MR SKINNER RAN THEM OFF.
 - EARTH-TECH MOVED A SCRAP METAL PILE ALONG ACCESS RD. MR SKINNER HAD DIFFERENT SCRAP METAL PARTS SEPARATED. INCLUDING EXPENSIVE AXLES. THE PILE IS NOW MIXED. MR SKINNER WILL HAVE TO RE-ORGANIZE THE SCRAP METAL.
 - EARTH TECH WAS SUPPOSE TO HAVE THEIR OWN CONST. ENTRANCE.
 - HE DOESN'T WANT WORK ON WEEKENDS.
 - MR SKINNER DOESN'T WANT US TO TRESPASS ON WEST-SIDE PROPERTY WHERE A LARGE CONTAMINATED SOIL EXCAVATION ZONE IS LOCATED.
- OTHER CONCERNS BROUGHT UP DURING SITE VISIT.
- DECON PAD RE-LOCATED.
 - DUST CONTROL MEASURES.
 - DRUM & TANK SAMPLING PRIOR TO AN

5/24/01 THURSDAY

M. BRADY.

APPROVED PLAN.

• OPEN LINES OF COMM.

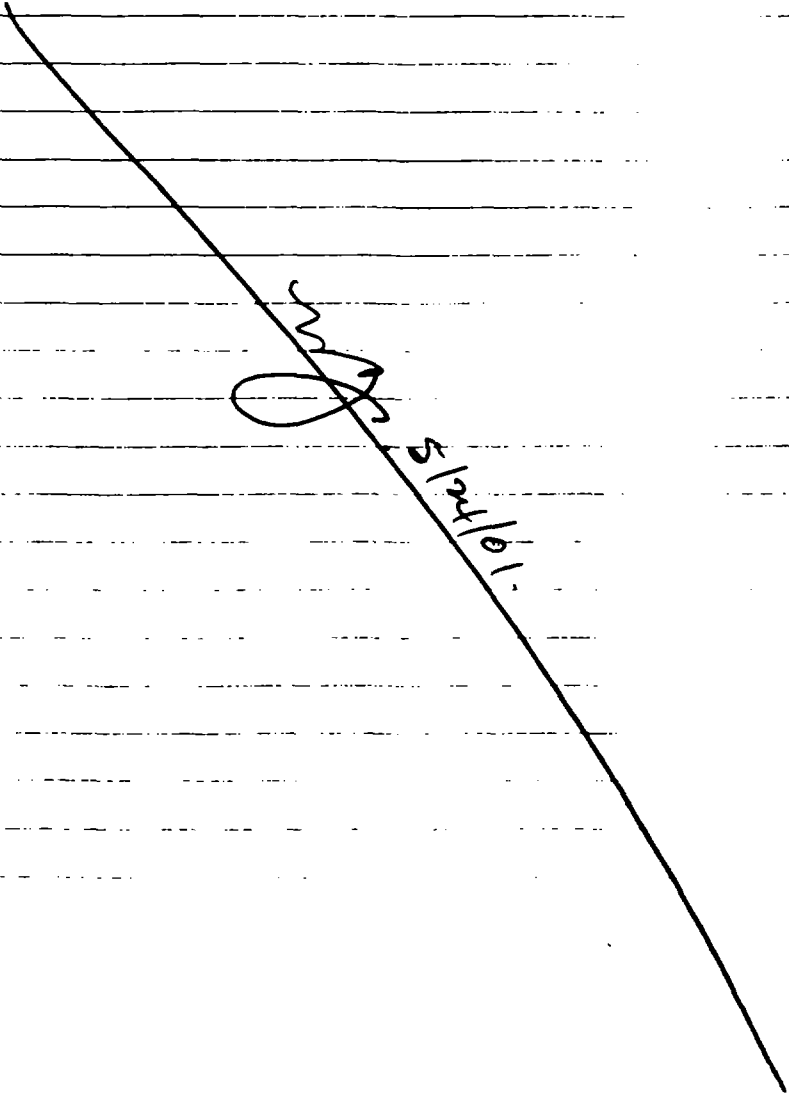
• EARTH-TECH & PRO-TERRA FOLLOWING
DESIGN SPECS.

• DAILY RPT REVIEW.

1115 FURTHER REVIEW OF DESIGN SPECS.

1145 ON OFF SITE.

1205 M. BRADY LEFT SITE FOR OFFICE

1230 @ THE OFFICE WORKED ON SUMMARY
RPT.
5/24/01

5/29/01 TUESDAY

M. Brown

1100 LEFT OFFICE FOR SKINNER LF.

1130 C SKINNER LF. Mostly Sunny. 70°F
No ONE C SITE TRAILER.

1145 M. SHEPSON OF EARTH TECH IS SAMPLING
AST C SOUTH END OF LF. P.P.E INCLUDES
HEAVY NITRATES & GLASSES. HE'S SAMPLING
THE LIQUID USING A BAKER & DROP LINE.
THE LIQ. COULD BE OLD DIESEL FUEL OR
CREOSOTE OR OTHER. THICK, DARK BROWN TO
BLACK. SOME LIQ. SPILLED ONTO TANK &
GROUND THE PROCESS AST WILL BE
SAMPLED LATER IN THE NEXT FEW DAYS
OR WEEKS. ALL SAMPLES WILL BE SENT
DIRECTLY TO THE CONTRACT LAB ON ICE.
EARTH TECH IS APPARENTLY NOT FOLLOWING
AN APPROVED DRUM & TANK SAMPLING
PLAN.

1215 THE PC400 TRACK HOE IS IN OPERATION.
SHAPE BIR IS C APPROX. 13 1/2 FT BG 2
C THE EASTERN-MOST SECTION OF
THE TRENCH. THE SLURRY MIX AREA
IS JUST NW OF THE TRENCH WHERE
A 2ND PCH IS MIXING.

1310. REVIEW OF DAILY SUMMARY RPTS. APPROX
BENSON'S CO. RPTS FOR CONSTRUCTION PHASE.
CAP LIMIT - 10.80 ACRES. TWO COMPACTION
TESTS / SQ. ACRES. COMP. SPECS 90%
MOISTURE - DENSITY RELATIONSHIP CURVE
SAMPLE S-04 NORTH BORROW
MAX DRY DENSITY (PCF). 104.3
OPTIMUM MOISTURE (%) 18.5
ZAV C GS 2.7 ZERO AIR VOIDS
ASTM D698-91 STD. METHOD B

5/29/01 TUESDAY

M. BRADY

PROCTOR RESULTS - HC. NUTTING.

I.D. S-01 TOP OF SHAPE. 2-4"

MAX DRY DENS. 133.5 PCF.

OPT. MOIST. 8.1%

ZAV. C GS. 2.75

I.D. S-02 TOP OF SHAPE 4'

MAX DRY DENS. 120.7 PCF

OPT. MOIST. 11.3%

ZAV. C GS. 2.7

I.D. S-03 SAND BORROW. 6'

MAX. DRY DENS. 124.1 PCF

OPT. MOIST. 9.6%

ZAV. C GS. 2.7

1330 CONSTRUCTION OF THE SHIPPY WALL
IS SLOW GAINING DEPTH TO BIR. IS
APPROX 13.5 FT. BGS. BIR CONSISTS OF
A COMPETENT SHALE BELOW A WEATHER
SHALE / CLAY.

1445 LATERAL TRENCH DISTANCE IS ROUGHLY
60 FT C EAST END OF L.F.
GEO-SOLUTIONS PRO-TERRA'S CONTRACTOR
IS INSTALLING THE TRENCH & MIXING
THE SHIPPY. WORKING NEAR THE
TRENCH IS V. HAZARDOUS DUE TO
THE SHIPPY MIX & SHIP, TRIP & FALL
HAZARD. A LIFE-SAVER AND ROPE
ARE NEAR BY.

1545 THE SHIPPY IS KEPT IN TWO FT INTO BIR
NO CAP WORK BEING DONE TODAY. ONLY
TRENCH WORK & 1ST SAMPLING.

1600 MR. SKINNER ON SITE @ THE DECON
PAD MR. SKINNER COMMENTED ABOUT
A NO. OF THINGS INCLUDING THE

3/29/01 TUESDAY
VEHICLES PARKED NEAR HIS FOLLOW-OFF
BOXES AND BROKEN AXLES MOVED
ON EARTH TECH
1045 M. BRADY LEFT SITE FOR OFFICE.



3/29/01

5/30/01 WEDNESDAY

0750 APPROVED @ SPINNER L.F. Sunny & 70 FV M. BRADY
Full CREW TODAY.

0815 FAX'D WORK Summary TO OM

0830 EARTH-TECH WORKING ON THE DECON PAD
THE PAD IS NEARLY FINISHED

0845 PRO TERRA & GEO-SOLUTIONS

CONTINUE TRENCHING. TODAY'S START @ 4+6

0900 STAGGED DRUMS ARE NOT COVERED W/
PLASTIC. AND EXCLUSION ZONE FENCE
IS PARTLY DOWN.0915 THE EAST END OF THE TRENCH STARTS
@ 3+78 STAKE. THEY ARE NOW @
3+10. BIR IS AVERAGING 13-15 FT BG2
THEY ARE @ REFUSAL OFTEN BIF
THE TWO-FT KEY BELOW BIR.
THE SLUMP STRD IS 3-6". THIS IS
BRING OBTAINED.0925 SOME POINTS ALONG THE TRENCH
ARE KEYPED IN ONLY 1/2 FT. INTO
BIR. @ PRESENT PRO-TERRA'S
METHOD OF TRENCHING IS TO
LEAVE A SMALL SOIL DAM B/LW
THE OPEN EXCAVATION AND THE
SLURRY-MIX FILLED WALL THEN
CAN EVALUATE THE BIR DEPTH.
ONCE REFUSAL OR 2-FT KEY IS
REACHED, THE DAM IS REMOVED &
SLURRY MIX ALLOWED TO FILL THE
OPEN EXC.1020 TESTING ON THE SLURRY MIX IS FOR
VISCOSITY AND SP. GRAVITY.

1045 VISITORS ON-SITE. TRENCHING CONTINUE

1100 M. SHERTON SAMPLING PROCESS TANK.

5/30/01 WEDNESDAY

M. BRADY

1105 MTG. w/ Scott Hansen @ SITE TRAILER
ONCE H/O OUTLINING PRIMARY MR SKINNEE
COMMENTS

1140 TRENCHING CONTINUES

DEPTH TO BIR IS APPROX 18-20' BGS

1330 BIR SHOULD DROP TO ~22' BGS @ 5+70.

1345 MUCH OF THE SILT FENCE IS DOWN OR
BURIED ALONG THE SOUTHERN PERIMETER1400 OFF-SITE DRAIN PIPE @ 1+00. LEADING
TO EAST FORK.

STAKE	BIR	KEY
3+7.8	12'	14.5'
3+80	12'	14'
3+90	12'	16'
4+00	12.5	15.5'
4+10	12.5	15.5'
4+20	12.5	15.5'
4+30	12.5	14.5'
4+40	14.5	14.5'
4+50	14.5	14.5'
4+60	14.5	15.5'
4+70	15.5	16'
4+80	15.5	16.5'
4+90	15.5	16'
5+00	15.5	16.5'
5+10	16	17
5+20	16.5	17
5+30	16.5	17
5+40	16.5	17

1430

ON-SITE TODAY. MIKE FUTSCHER E.T.
TERRY LEWIS E.T., BRIAN MARSH E.T.
KENNY FINLEY E.T., CHRIS WAYNE PRO.T.
MITCHELL COLENS E.T., JOHN TUTTLE E.T.

5/30/01

WEDNESDAY

AARON BENSON E.T. BRUCE GEORGE M. BRADY
 JASON GUFATHNER E.T. CHRIS RYAN GSI.
 WAYNE WALTON PERRO, RON FOLKNER E.T.
 BEN DAKER DOW-SLG, RICK WATKINS E.T.
 MIKE SHEPPAN E.T. SCOTT HANSEN USFPA
 CHRIS MOSES E.T. MIKE CIAMMAICHELLA
 PROTERRA, JIM LORENZ-PROTERRA

1615

STAKE

BIR

KEY

2150

17

175

2160

17

21.

TOMORROW, THURS, COLUMBUS CO. CO.

MAY BE OUT TO MANT. THE PC400.

LOOSE FITTINGS

1645

M. BRADY LEFT THE SITE

5/30/01

- 5/31/01 THURSDAY M. Brady
0800. C OFFICE WORKING ON SUMMARY FRT
SITE PHOTOS
- 1000 LEFT THE OFFICE FOR SKINNER L.F.
- 1045 C SKINNER L.F. Mostly cloudy
BREEZY 60°F Full crew today.
YESTERDAY (WED) PROTERRA ADVANCED
THE TRENCH 120 FT. Laterally STOPPING
C S+80. BIR IS C ~ 22' BGS C
THIS LOCATION APPON BENSON (GEOLOG. ST.)
IS EVALUATING THE TIL & BIR.
- 1115 OBSERVATION. FROM S+30 TO 7+00
THE CUT BANK OF THE EAST FORK OF
MUD CRK IS UNDER CUTTING THE
BANK PARTICULARLY C S+80.
EROSION OF THE NORTH BANK IS SUCH
THAT THE SECURITY FENCE HAS
SEPP. FROM THE SOIL AND NOW
OVERHANGS INTO THE CREEK. RIP RAP
MAY BE NEEDED TO SLOW THE PROCESS.
OTHERWISE THE EROSION C THE CUT BANK
WILL SOON REACH THE SHIPPY WALL.
- 1220 TRENCHING TO STAKE 4+30 DEPTH C
APPROX 20' SLOWER WORK NOW
B/C OF THE DEPTH. THE BACKFILL
MIX IS ON HOLD UNTIL AN ADVANCE
BY THE PC400 CAN BE MADE
- 1315 HUFFED IS DISPLACING FINE MTL FROM
THE EAST SIDE OF L.F.
- 1400 EARTH TECH'S BIOLOGIST IS ON SITE
TO CONDUCT A STREAM STUDY. STONE FLIES,
BEETLES, ETC. IM KEITH?
1430. VISCOSITY TEST CONDUCTED USING A MARSH
FUNNEL SHIPPY MIX W/IN SPECS

5/31/01 THURSDAY

M. BRADY

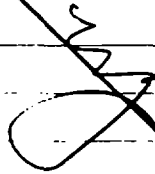
1440. SPECIFIC GRAVITY TEST CONDUCTED
USING A MUD BALANCE. SLURRY MIX
W/IN SPECS. ON A BUSY DAY PRO TERRA
W/IN USE ~ 140 BAGS OF BENTONITE
IN THEIR BATCHES

1500. BIOLOGIST TESTS. STREAM PARAMETERS
DO, PH, SP. COND, SURF SAMPLING FOR
MACRO-INVERTEBRATES, & STREAM METRICS
MAY FLIES, STONEFLIES, MINNOWS, CRA FISH

1530. PIN-HOLE LEAK IN PC400 HYDRAULIC LINE

1545 THE LARGE BUCKET CRANE NEAR
THE MIX PLANT MAY BE MOVED ON
MONDAY TO MAKE ROOM FOR THE
SLURRY WAY

1600 M. BRADY LEFT THE SITE



5/31/01

U11101 FRIDAY

M. BRADY

0930. C SKINNER L.F. OVERCAST, LT. RAIN 60°F

SPOKE W/ JASON, NO WORK IN THE FILL AREA TODAY AND NO SAMPLING TODAY

PROTERRA IS WORKING ON THE PC400

RANDY'S CREW LEFT THE SITE TO GET A WELDER TO REPAIR A HYD LINE LEAK.

1000 SPOKE W/ RANDY OF PROTERRA. HE WOULD

LIKE TO WORK TODAY IF THE PC400

IS REPAIRED. HE WOULD ALSO LIKE

TO WORK SATURDAY. BUT 90%

CHANCE OF T. STORMS FOR SAT

THEY'LL MAKE THAT DECISION SAT.

MORN.

1010. THE SITE IS V. MUDDY FROM RAIN.

WATER IS FLOWING FROM L.F. INTO

TRENCH. PROTERRA IS PUMPING WATER

FROM TRENCH INTO EAST FORK MILL CREEK.

1015. HYD LEAK LEFT H.Q. ON GROUND YESTERDAY.

PROTERRA BUT SOIL BEGINS TO CONTAIN

THE HYD. FLUID UNTIL IT CAN BE

REMOVED

1020. THE SOIL @ ST 80 AND CUT BANK OF

THE CREEK HAS DEVELOPED SOME

CRACKS. WHEN THE PC400 IS EXCAVATING

THE GROUND SHAKES AND LOOSENS

SOIL IN THE VICINITY. THERE'S A

HIGH Silt CONTENT IN THE CREEK

TODAY AND A HIGHER DISCHARGE

STAKE

BIR

KEY

ST 70

19

22

ST 80

19

22

ST 90

21

22

ST 100

21

22

- 6/1/01 FRIDAY M. BRADY
 1045 SPOKE W/ OM ABOUT THE HND LEAK
 STATUS OF PC400. & SATURDAY WORK
 1100- REVIEWED DAILY PPTS FM AARON E.T.
 AARON SAID THAT PAT HIGGINS WILL BE
 OUT THIS AFTERNOON TO SAMPLED PUN-
 OFF WATER AND DISCUSS W/ OM AB.
 W/ DOWSER - MORNING OF DAYTON.
 1245 M. BRADY LEFT THE SITE.
 NOTE: REVIEWED EARTH TECH'S
 EROSION CONTROL PLAN AND R.P. RAP
 DESIGN WORK PLAN FOR WORK ALONG
 THE EAST FORK OF MILL CREEK
 1345 ARRIVED @ THE OFFICE

Summary
 6/1/01

- 6/4/01 MONDAY M. Brown
- 0745 ARRIVED @ SKINNER LF OVERCAST!
LT. RAIN. 60°F.
0830. NEAR THE AREA SOUTH SIDE @ GW25
W/ BOWSER-MORNER TO ABANDON WELL
- 0855 PAT HIGGINS MEAS. W.L. @ TD ~ 30' BGS
@ GW25. 2 IN. DIAM. PVC.
- 0905 PULLED THE PROT. CASING @ ABOUT 2-6'
OF WHEN CASING. CASING BROKE.
0910. BOWSER-MORNER ATTEMPTING TO PULL
THE REMINDER OF CASING WHILE OVER-
DRILLING W/ 4 1/4" AUGERS.
- 0925 NO TRENCH WORK YET TODAY. F.T.S.
TRYING TO REPAIR A HYD. LEAK IN THE
PC400 HYD. LINE. PRO-TERRA & F.T. WORKING
~ 8 HOURS SATURDAY 6/2/01.
- 0935 PAT HIGGINS, F.T. COLLECTED RUN-OFF
SAMPLES LATE FRIDAY 6/1/01 AT A
SAMPLE POINT ALONG THE CREEK NEAR
THE EAST-END OF THE SLURRY WALL.
DUP & MS/MSD WERE ALSO COLLECTED.
- 0950 APPROX. 25' OF CASING & SCREEN HAVE
BEEN PULLED FROM GW25. THE LOWER
PORTION OF THE SCREEN WAS LEFT IN
THE HOLE & GROUND UP. CEMENT/
BENTONITE SLURRY USED TO GRout HOLE.
1010. F.T. DISCHARGING RUN-OFF WATER FROM
SLURRY BACKFILL AREA @ EAST END INTO
THE CREEK. 40 FEET ADVANCED SAT.
@ THE TRENCH.
1020. IT DOESN'T APPEAR THAT ANYTHING
HAS BEEN DONE @ THE CONTAINED
HYD. FLUID EMBANKMENT NEAR THE
SLURRY MIX PLANT.

1104/01 MONDAY M. BRADY
 1045 STAKE BIR KEY
 6+10. 24 25
 6+20 25 27.5
 6+30. 22.5 25
 6+40 22 23
 TRENCH WORK STOPPED @ 6+80
 ON SAT.

1100 B.M. DONE @ 6+25. PC400 APPEARS TO
 BE REPAIRED COMM BUS CO. ON-SITE.
 1105 ON SITE TODAY JOHN HILYARD, PRO TERR
 BRIAN MARSH E.T., MIKE TUSCHER E.T.,
 TERRY LEEDFORD E.T., KENNY FINLEY E.T.,
 MICHAEL COLLINS E.T., JOHN TUTTLE E.T.,
 STEVE EDINGER PTEC, JASON GUNTHER E.T.,
 BRUCE GEORGE GSI, ALAN WILKE B.M.,
 CHRIS GROVE B.M., CHRIS WILKE PTEC,
 KENNY FENSTER PTEC, PAT HIGGINS E.T.,
 JOHN TACKETT ESTG, RALPH DEFORDO,
 WAYNE WALTON PTEC, RANDY CALHOUN
 COL FO. CORP

1110 AARON + PAT OFF SITE TO LOOK FOR TWO
 ADD'L WRECKS TO ABANDON.

1200 LUNCH.

1230 ON-SITE REVIEWED WORK SPECS LIGHT
 RAIN.

1330 HEAVY RAIN. NO WORK BEING COMPLETED
 @ THIS TIME. TRENCH WORK HAS NOT
 BEEN STARTED EVEN THOUGH THE PC400
 HAS BEEN REPAIRED.

1345 AARON BRADSON E.T. INFORMED ME THAT
 ABSORBENT PADS WERE USED TO SOAK UP
 THE HYD. FLUID SPILLED NEAR THE
 SLURRY MIX PLANT.

6/04/01 MONDAY M. BRADY.
1400. SCATTERED T-STORMS ARE
ANTICIPATED THROUGH THURSDAY
M. BRADY LEFT SKINNER FOR THE
OFFICE
1430. ARRIVED @ THE OFFICE WORKED ON
SUMMARY RPT.


SUM

6/14/01

6/5/01 TUESDAY

M. BRADY

0745 C THE OFFICE WORKING ON SUMMARY RPT'E

0910 LEFT OFFICE FOR SKINNER L.F.

0940 C SKINNER L.F. OVERCAST: Humid, 70°F

NO RAIN. Full CREW TODAY.

0950 MR SKINNER ON SITE ATTEMPTING TO
START: MOVE THE LARGE BUCKET
CRANE NEAR THE SLURRY MIX PLANT.1000 YESTERDAY MONDAY, THE TRENCH WAS
ADVANCED 40 FEET Laterally FROM
6+40 TO 6+80.

STAKE	BIR	KEY
6+50.	20.5	21.5
6+60	21.5	23
6+70	21.5	22.6
6+80.	21.5	22.6

1040 THE SALT FENCE ALONG THE SOUTHERN
PERIMETER IS COMPLETELY BURIED
IN PLACES1115 E.T. REPAIRING SALT FENCE ON WEST
PERIMETER OF FILL AREA

1120 E.T. DECONING EQUIP. PC300-

1140 E.T. ALSO INSTALLING NEW SALT FENCE
C WEST PERIMETER FENCE

1215 LUNCH

1245 PC400 BROKE A HYD. LINE. THE SLURRY
MIX WAS ADVANCED TO 7+50 B/F THE
LINE BREAK. BIR IS CONFIRMED TO 7+20

STAKE	BIR	KEY
6+90	21	22
7+00.	19.6	21.6
7+10	19.5	21.5

HYD. FLUID IS SPILLED IN THE TRENCH
AND NEAR THE BACKFILL SLURRY MIX.

6/5/01 TUESDAY

1330 JOHN OF PROTEGRA SAID THAT EXCAVATION
PASSES OF 10' WILL BE MADE VS 20'
PASSES TO MANEUVER AROUND THE
BENDS OF THE SOUTHERN PERIMETER.

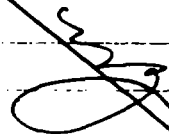
1400 REVIEWED WORK PLANS & QC RPTS

MR SKINNER IS ATTEMPTING TO START
THE LARGE BUCKET CRANE. HIS SON &
A FEMALE (GIRLFRIEND?) ARE ON SITE
HELPING & TAKING VIDEO. NO PPE

1440 E.T. IS BACKFILLING THE TRENCH. RANDY
OF PROTEGRA IS OFF SITE TO FIND A
HND. HOSE FOR THE PC 400. HE MAY NOT
MAKE IT BACK TO THE SITE TODAY.

1510 LEFT SITE FOR THE OFFICE

1545 @ THE OFFICE WORKED ON SUMMARY RPT



6/5/01

6/6/01 WEDNESDAY

M BRAZIN

0830 ARRIVED C SKINNER L.F. HEAVY RAIN TO F
SPOKE W/ JASON G, SITE MANAGER. THE
BUCKET CRANE HASNT BEEN MOVED YET.
ON LIGHTNING MERT. 30 MIN WAIT
THE PC400 IS STILL DOWN. PROTERRA
IS WORKING ON THE PC400

0900 THE SLURRY TRENCH IS FULL OF
WATER. ABSORBENT PADS HAVEN'T
BEEN REMOVED YET.

0910 ADD'L SNOW FENCE HAS BEEN
INSTALLED ALONG SOUTH PERIMETER
C EROSION AREAS

0920 WATER LEVEL IN THE CREEK IS
HIGHER THAN NORMAL AND V. TURBID

0945 SPOKE W/ RANDY OF PROTERRA THEY
SHOULD HAVE THE PC400 OPERATIONAL
TODAY AND COULD BE OUT TO RE-ROUTE THE MID. LINES
TO THE TOP OF THE ARM

1000 E.T. IS PREPARING THE CONDUIT
FOR THE INTERCEPTOR TRENCHES
ACCORDING TO THE SCHEDULE IN THE
FIELD TRAILER, CONSTRUCTION OF THE
SLURRY WALL IS 2-3 WEEKS BEHIND

1030 MIKE SHEPHERD E.T. IS SETTING UP A
WEATHER STATION @ THE SITE TRAILER
REVIEWED DAILY QC RPTS.

1130 THE PC400 IS REPAIRED. ADD'L CUTTING
TEETH HAVE BEEN INSTALLED ON EITHER
SIDE OF THE BUCKET. THE SIDE TEETH
SHOULD ALLOW MORE ROOM FOR THE
PC400 TO MANEUVER WITHIN THE TRENCH
BUT THE TRENCH WILL BE WIDER THAN

6/6/01 WEDNESDAY

M. BRADY

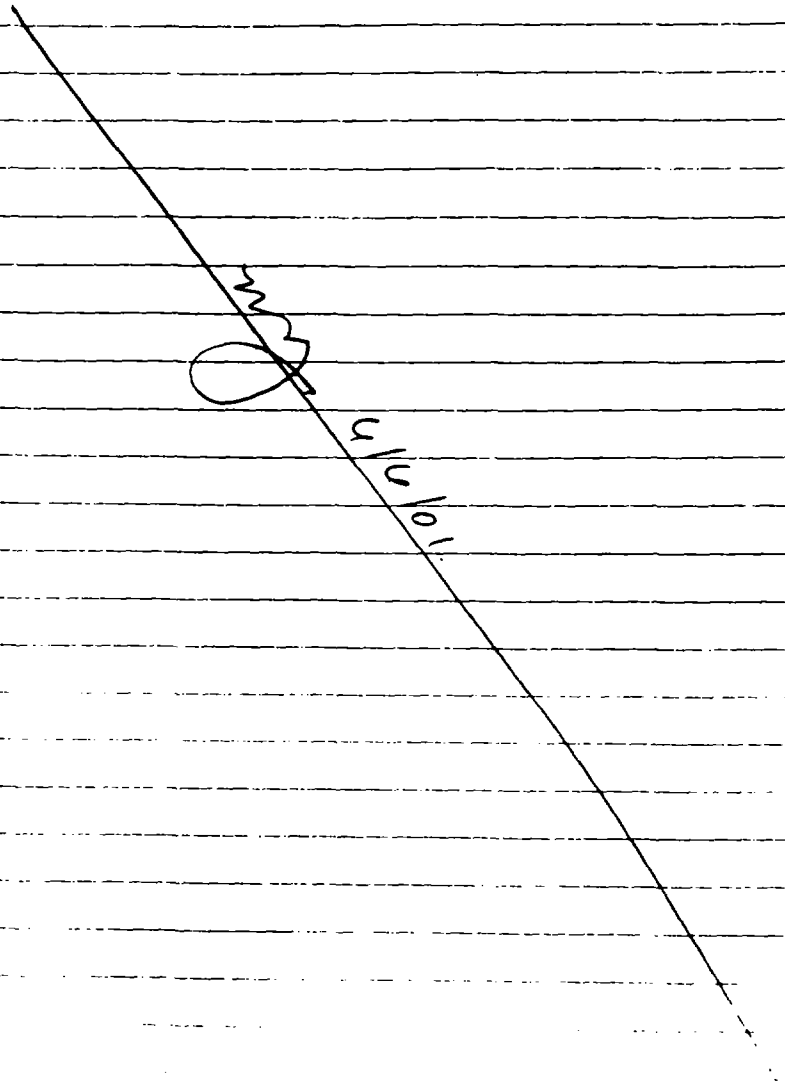
THE 2 1/2 INCHES AS CALLED FOR IN THE
WORK PLAN. C.G. 30 INCHES WIDE

1330 EXCAVATING C. #40 ~ 23' BGS C 7+20.

1410 HYD LINE IS LEAKING.

1420 E.T. REPLACED TORN 'O' RING IN HYD LINE.
THE PC400 WILL BE DOWN FOR AWHILE.

1445 LEFT SITE FOR OFFICE.



6/7/01 THURSDAY

0745 C THE OFFICE WORKING ON SUMMARY
RPT. M. BRADY

0945 LEFT OFFICE FOR SKINNER L.F.

1015 C SKINNER L.F. OVERCAST, HUMID 70°F.
E.T. IS MOVING THE MTL ON EAST SIDE
OF L.F. THE PC400 LOST ANOTHER HYD
LINE1030. PROTERRA IS WORKING ON THE PC400.
REPLACING THE HYD LINE ABSORBENT
PADS ARE USED TO SOAK UP THE
SPILLED HYD. FLUID1100. E.T. IS INSTALLING NEW SALT
FENCE ALONG WEST PERIMETER FENCE.1115 MORE OF THE SALT FENCE ALONG THE
SOUTH PERIMETER IS DOWN OR BURIED
DUE TO HEAVY RAIN LAST NIGHT.

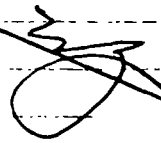
1125 PROGRESS MADE SINCE YESTERDAY

STAKE	BIR	KEY
7+20.	21	23
7+30	21	23

1230 PC400 BACK UP.

1315 EXCAVATING C 7+50.

1330 LEFT SITE FOR OFFICE


6/7/01

6/11/01 MONDAY M. BRADY.
 1030 C SKINNER L.F. SUNNY AND HUMID 80°F
 E.T IS MOVING IN MT'L ON THE EAST SIDE
 AND WORKING ON THE CUT-OFF WALL
 MUCH PROGRESS SINCE LAST THURS

STAKE	BIR	KEY
7+40.	19.5-	22.5-
7+50	19	21
7+60	17.5	19.5-
7+70	17.1	19
7+80.	17.5	18.5-
7+90.	15	16
8+00.	14.5	15.5-
8+10	12	13
8+20.	10.5	11.5-
8+30.	11.5	12.5-
8+40.	11.5	12.5-
8+50	11.5	12.5-
8+60.	11.5	12.5-
8+70.	11.5	12.5-
8+80	11.4	12.4
8+90.	11	12
9+00.	10	11
9+10.	10	11
9+20.	10.5	11.5-
9+30	10.6	11.6
9+40	10	11
9+50	11.2	12.6
9+60.	12.6	13
9+70.	12.5	13
9+80.	17.2/12.9	13
9+90.	11.4	12.6
10+00	17	18.3
10+10	20	20.6

6/11/01 MONDAY
STAKE

BIR

M. BRADY
KEY
21.5

10+20.

20

10+30

-

10+40.

-

1205 END OF TRENCH @ 10+50. BUT NOT TO BIR YET.

FRIDAY 6/8/01 7+80 TO 8+70.20

SATURDAY 6/9: 8+80 TO 9+20. 90 FT. SAT.

1215 MR SKINNER ON SITE TRYING TO START THE BUCKET CRANE RICK WARWICK SAID THAT THE CRANE WOULD BE MOVED ONE WAY OR ANOTHER TODAY.

1325 MR. SKINNER & FRIEND TEMPORARILY GOT THE BUCKET CRANE RUNNING ~ 3 FT FORWARD (NW) & ~ 2 FT BACKWARD (SE) HE NEEDS A 3RD PERSON TO OPERATE THE THROTTLE WHILE THE OTHER TWO OPERATE THE GEARS & SPRAY EITHER.

1345 RICK WARWICK CALLED ONE OF HIS EMPLOYEES FOR HELP.

1350 3RD PERSON ON SITE TO HELP PUSH THE BUCKET CRANE NO PPE FOR MR SKINNER & FRIEND

1400 @ 10+40 BIR HAS DROPPED OFF TO ~ 25 FT BGS

1410. 3 BAGS OF HYDROFILL TO 600 GAL OF WATER IN THE MIX PLANT. ONE OF THE TWO FRAC TANKS IS USED TO RE-CIRCULATE THE SLURRY MIX. & THE OTHER FRAC TANK IS USED TO HOLD WATER

1430 E.T. ATTEMPTING TO MOVE THE BUCKET CRANE OR DOPPER RIG W/ TWO

6/11/01 Monday

M. Brady

30 TON VOWLS THE RIG WEIGHTS -

300 TONS ACCORDING TO MR SKINNER

1445 E.T. HAS HAD NO SUCCESS MOVING THE RIG

1500 STAKE 10+30, BIR 234, KEY 248.

1530 E.T. TRYING TO MOVE THE DIPPER RIG

AGAIN USING TWO 30 TON VOWLS, A BULL

DOZER & A PC300 EXCAVATOR

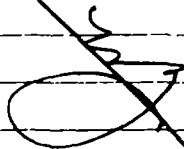
1600 SOME PROGRESS THE DIPPER RIG MOVED

ABOUT 4 FT. BIF TOW CHAIN BROKE

1615 PC400 STILL WORKING ON 10+40 & 10+50

BIR IS DEEPER THAN EXPECTED

1630 M. BRADY LEFT THE SITE



6/11/01

6/12/01 TUESDAY

M. BRADY

1100 LEFT THE OFFICE FOR SKINNER L.F.

1130 @ SKINNER L.F. HOT & HUMID 90°F

E.T. HAS MOVED THE DIGGER RIG OUT OF THE WAY OF THE SANITARY SEWER T.I.E. (N). PROGRESS IS BEING MADE @ THE CUT-OFF WMU TRENCH. A PORTION OF THE LANDFILL PERIMETER FENCE HAS BEEN TAKEN DOWN FOR CONSTRUCTION OF THE TRENCH.

1200. VERY DRY AND DUSTY. HAVEN'T SEEN THE WATER TRUCK USED FOR DUST SUP. THE LAST TWO DAYS OUT.

E.T. ENDED @ 10450 YESTERDAY,

STAKE	BIR	KEY
10+40.	25.3	26.
10+50	26.3	28
10+60.	25.8	27.6
10+70	25.5	27.8
10+80	25	27.
10+90	24.7	26.4
11+00	24.6	26.
11+10.	23.9	25.3

1245 SCOTT HANSEN ON SITE. SCOTT IS

HERE TO REVIEW PROGRESS ON SHIPPY.

WMU CONSTRUCTION. I DISCUSSED SHIPPY

WMU INTERCEPTOR TRENCHES, FORCE MAIN

TIE IN TO SANITARY SEWER, BUTLER CATCH

WATER, MTG. NEXT WEEK ON SITE. ETC

1345 WATER TRUCK NOW IN OP.

1500 SCOTT HANSEN OFF SITE

1545 MIKE SHARRON CONDUCTING AIR MON.

USING A MICRO-TIP & PDR

1630 M. BRADY OFF SITE ✓ 6/12/01

6/31/01 WEDNESDAY

M. BRADY

1115 LEFT OFFICE FOR SKINNER LF

1145 C SKINNER LF. HOT & HUMID 90°F
ET CONTINUE WORK C SLURRY WALL
AND ON TOP OF THE LANDFILL1250 SLURRY WALL PROGRESS PER DAY PER
AARON BENSON.

5/29 3+78 TO 4+60

5/30 4+60 TO 5+80

5/31 5+80 TO 6+00

6/2 6+00 TO 6+40

6/4 6+40 TO 6+80.

6/5 6+80 TO 7+00.

6/6 7+00 TO 7+20.

6/7 7+20 TO 7+70.3

6/8 7+70 TO 8+20.70

6/9 8+70 TO 9+70

6/11 9+70 TO 10+50

6/12 10+50 TO 11+30.

JIM BRADFORD OF BCDPS WAS ON SITE
TO LOOK C THE SANITARY SEWER T.I.E. IN.1300. MIKE SHERMAN CONDUCTING AIR MON C
LANDFILL1315 AARON BENSON & JENNY ON SITE TO
COLLECT CREEK SAMPLES.1330. SPOKE W/RANDY (PROTERIA) ABOUT
EST. TIME TO COMPLETE THE SLURRY
WALL. POSSIBLY 2-4 DAYS AFTER WHICH
TWO DAYS WILL BE NEEDED TO PREP FOR
INTERCEPTOR TRENCH INSTALLATION.1340. WEATHER MON. STATION MOUNTED C
DECON. PAD

1350 MR SKINNER ON SITE

1400 AARON & JENNY COLLECT SAMPLES C TRAILER
DOWN AT D.

6/13/01 WEDNESDAY

M. BRADY

1430. Spoke w/ Jason about AMENDED CUT & FILL PLANS. THE ORIGINAL PLANS WERE DESIGNED TO MINIMIZE USE OF THE BARROW AREAS WHEREAS THE NEW CUT & FILL PLANS ARE DESIGNED TO MINIMIZE REGRADING OF FILL MTL.

1440. THE CENTER OF THE L.F. WILL BE USED TO SPREAD & COMPACT CONTAMINATED SOIL (VOL = 875 cu) FROM THE TWO DESIGNATED SOIL CONT. AREAS. E.T. IS 2 TO 3 WKS BEHIND SCHEDULE ACCORDING TO THE PRELIM DESIGN PLAN.

1510 E.T. STARTED @ 11:30 TODAY & ARE NOW @ 11:40.

STAKE	BIR	KEY
11+20	23.4	25.0
11+30	23.2	2.5
11+40	25.8	26.4
11+50	31.5	32.6
11+60	33.3	3.5
11+70	33	3.7
11+80	-	-
11+90	-	-

1520. ARON & JENNY CONTINUE SURF WATER SAMPLING @ MILL CREEK. READING @ WEATHER STA. IS 107°F

1620. DRUM SAMPLE RESULTS ARE MOSTLY BDL.

1640 M. BRADY OFF SITE

6/13/01

6/14/01 THURSDAY

M. BRADY

1345 ON SITE @ SKINNER LF. HOT HUMID, RAIN.
90°F.

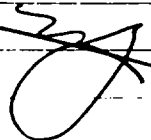
STAKE	BIR	KEY
11+80	23.7	33.4
11+90	32.5	33.6
12+00	32.6	33.4
12+10	32.5	33
12+20	32.4	33
12+30	31.4	31.9
12+40	31.2	31.6
12+50	24.4	30.6
12+60	-	-

1410. SPOKE w/ RANDY OF PROTERRA. THEY'LL
NEED TWO TO THREE DAYS TO PREPARE
ACCESS ROADS, ETC. PRIOR TO STARTING
INT. TRENCH CONSTRUCTION. THEY MAY
START NEXT WEEK OR THERE'S IT MAY
TAKE JUST AS LONG TO CONSTRUCT THE
INT. TRENCHES AS IT DOES THE SNIPPY
MAIN TRENCH.

EARTH TRENCH PROTERRA, & GREG SOLO'S
SHOULD FINISH W/ THE SNIPPY MAIN
TRENCH FRIDAY.

1445. E.T. CONTINUE TO MOVE LF. DIEB'S
FROM EAST-NORTHEAST TO THE CENTER
OF THE LF. WHERE IT'S BEEN CARRIED
AND COMPACTED.

1645 M. BRADY OFF SITE

 6/14/01